



THE ART OF MEASUREMENT THE ART OF MEASUREMENT THE ART OF MEASUREMENT



### FULL LINE

### FULL LINE



**PH METER** (optional)

**Model : PH-208**

- \* pH : 0 to 14.00 pH,  $\pm 1999$  mV.
- \* mV function for ORP electrode.
- \* Manual temperature compensation.
- \* ATC via optional Temp. probe ( TP-07 ).
- \* Easy pH calibration procedures.
- \* RS232/USB, Hold, Record,  $^{\circ}\text{C}/^{\circ}\text{F}$ .
- \* Size : 195 x 68 x 30 mm.



**DISSOLVED OXYGEN METER**

**Model : YK-22DOA**

- \* 0 to 20.0 mg/L, 0 to 50.0  $^{\circ}\text{C}$ ,  $^{\circ}\text{C}/^{\circ}\text{F}$ .
- \* Automatic temperature compensation.
- \* RS232/USB, Hold, Record.
- \* Probe head with diaphragm set and electrolyte are included.
- \* 4 meters cable, heavy duty.



(optional)

**ORP METER**

**Model : YK-23RP**

- \* Range : -1999 mV to + 1999 mV.
- \* Large LCD display, 21.5 mm digit height.
- \* High input impedance.
- \* Data hold, professional housing case.



**CONDUCTIVITY METER, wide range**

**Model : CD-4306**

- \* Wide ranges conductivity meter
- \* 4 ranges : 200  $\mu\text{S}$ , 2 mS, 20 mS, 200 mS.
- \* 4 rings conductivity probe, high performance.
- \* Data hold.



**CONDUCTIVITY/TDS/SALT METER**

**Model : YK-22CTA**

- \* Conductivity : 200  $\mu\text{S}$ , 2 mS, 20 mS, 200 mS.
- \* Function Conductivity, TDS, Salt.
- \* Temp. : 0 to 60.0  $^{\circ}\text{C}$ ,  $^{\circ}\text{C}/^{\circ}\text{F}$ .
- \* ATC, RS232/USB, Hold, Record.



**CONDUCTIVITY METER**

**Model : YK-43CD**

- \* 2 Ranges : 2 mS, 20 mS.
- \* Large LCD display, 21.5 mm digit height.
- \* Automatic temperature compensation.
- \* Data hold, professional housing case.



**PH METER** (optional)

**Model : YK-21PH**

- \* 0 to 14 pH x 0.01 pH.
- \* Large LCD display, 21.5 mm digit height.
- \* Accuracy :  $\pm 0.1$  pH ( pH 4 to pH 10 ).
- \* Data hold, professional case.
- \* Economical cost.



**PURE WATER TESTER**

**Model : YK-30WA**

- \* Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999  $\mu\text{S}$ .
- \* 21.5 mm digit height, Data hold.



**SALT METER**

**Model : YK-31SA**

- \* Measurement : 0 to 10.0% salt ( % weight ).
- \* Large LCD display, 21.5 mm digit height.
- \* Automatic temperature compensation.
- \* Data hold, professional housing case.
- \* Aquariums, Water conditioning laboratory, industry & quality control.



**THERMOMETER, Pt 100 + Type K/J/R/E/T**  
**Model : TM-936**

- \* 2 in 1, Pt 100 ohm thermometer + Thermocouple type J/K/R/E/T ) thermometer.
- \* Type K/J/E/T : -100 to 1300 °C, 0.1 °C/ 0.1 °F.
- \* Type R : 0 to 1700 °C, 1 °C/ 1 °F
- \* Pt 100 ohm : -200 to 800 °C, 0.1 °C/ 0.1 °F.
- \* Sensor select button on the front panel, easy to change different type probe.
- \* 4 wires PT 100 ohm probe input, 0.00385 alpha coefficient, meet DIN IEC 751, high precision.
- \* Built-in a REL (relative ) button.
- \* RS232/USB, Hold, Record ( Max., Min. ).
- \* Temp. probe, optional.



**THERMOMETER, Type K/J/R/E/T**  
**Model : TM-926**

- \* Type K/J/E/T : -100 to 1300 °C, 0.1 °C/ 0.1 °F.
- \* Type R : 0 to 1700 °C, 1 °C/ 1 °F
- \* Sensor select button on the front panel, easy to change different type probe.
- \* Built-in a REL (relative ) button
- \* RS232/USB, Hold, Record ( Max., Min. ).
- \* Temp. probe, optional.



**ANEMOMETER**  
**Model : YK-80AP**

- \* Range : 0.4 to 25.0 m/s.
- \* m/s, ft/min, km/h, knots, mile/h, Temp..
- \* Temp. : 0 °C to 50 °C, °C/ °F.
- \* RS232/USB, Hold, Record ( Max., Min. ).



**High Temp. IR THERMOMETER, + type K/J/R/E/T**

**Model : TM-939**

- \* IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- \* IR emissivity is adjustable from 0.20 to 1.00.
- \* IR with Laser target guide, RS232/USB.
- \* Thermocouple input : type K/J/R/E/T
- \* Type K : -100 to 1300 °C, 0.1 °C/0.1 °F.



**ANEMOMETER, metal vane**

**Model : YK-80AM**

- \* Range : 0.4 to 35 m/s.
- \* Metal vane probe, heavy duty.
- \* m/s, ft/min, km/h, knots, mile/h, Temp..
- \* Temp. : 0 °C to 80 °C, °C/ °F.
- \* RS232/USB, Hold, Record ( Max., Min. ).



**High Temp. IR THERMOMETER, wide range**

**Model : TM-949**

- \* IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- \* IR emissivity is adjustable from 0.20 to 1.00.
- \* IR with Laser target guide, RS232/USB.



**SOUND LEVEL METER, Auto Range & RS-232**

**Model : SL-4012**

- \* 30 - 130 dB, Auto range, Manual range.
- \* Frequency & time weighting meet IEC 61672 class 2.
- \* A & C frequency weighting.
- \* Fast / Slow time weighting, Data hold.
- \* Peak hold, Memory (max., min.).
- \* AC output & RS232/USB computer interface.
- \* Size : 268 x 68 x 29 mm.



**SOUND LEVEL METER, separate probe**

**Model : SL-4013**

- \* 30 to 130 dB, Auto range, RS232/USB interface.
- \* 180° rotary sensor shelf.
- \* Same function as SL-4012.
- \* Separate probe optimum for remote measurement and low noise environment test.



**LIGHT METER**

**Model : YK-10LX**

- \* Large LCD display, 21.5 mm digit height.
- \* 2,000 Lux, 20,000 Lux.
- \* Sensor meets C.I.E. photopic spectrum.
- \* 2 filters, professional.
- \* Hold, External zero adjust.



**LIGHT METER**

**Model : LX-1102**

- \* Large LCD display with bar graph display.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Lux, Foot-candle unit selection.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* RS232/USB, Hold, Record, Zero adjust.



**Acc., Vel., Displacement, data logger**

**VIBRATION METER**

**Model : VB-8203**

- \* Acceleration : 200 m/s<sup>2</sup>.
- Velocity : 200 mm/s.
- Displacement (p-p) : 2 mm.
- \* Max hold, peak value, data hold.
- \* Memory (Max., Min.).
- \* LCD display with bar graph.
- \* RS232/USB interface, data logger.
- \* Hard carrying case is included.
- \* Size : 200 x 68 x 30 mm, Power : 9V battery.



**HUMIDITY METER, data logger, RS232**

**Model : YK-90HT**

- \* Humidity, Temp., Dew point
- \* 10 to 95 %RH, 0 to 50 °C.
- \* 0.01 %RH, 0.01 degree.
- \* 1000 data logger point, RS232/USB.

**HUMIDITY METER, +Dew Point + Type K**

**Model : HD-3008**



**LIGHT METER, 4 light type**

**Model : LX-1108**

- \* Large LCD display with bar graph display.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Lux, Foot-candle unit selection.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* RS232/USB, Hold, Record, Zero adjust.
- \* 4 light type selection.



**UV LIGHT METER**

**Model : YK-35UV**

- \* Spectrum : 290 nm -390 nm
- \* Application : UVA & UVB measurement.
- \* Range : 2 mW/cm<sup>2</sup>, 20 mW/cm<sup>2</sup>.
- \* Large LCD display, 21.5 mm digit height.
- \* Data hold, Max., Min..
- \* RS232/USB computer interface.

# LM-8000 SERIES



**4 in 1**  
**Anemometer, Humidity meter**  
**Light Meter, Type K Thermometer**  
**Model : LM-8000A**

- \* Humidity : 10 to 95 %RH, °C/°F
- \* Anemometer : 0.4 to 30.0 m/s.
- \* Anemometer unit : m/s, km/h, MPH, knots, ft/min, °C/°F.
- \* Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Data hold, Record ( Max., Min. )
- \* Tiny bone shape with light weight and small size.

**Model : LM-8010**

- \* Same as LM-8000 but with air flow ( CMM, CFM ).

**Model : LM-9000**

- \* Same as LM-8000 but with air flow ( CMM, CFM ) and barometer.



**ANEMOMETER**

**Model : LM-81AM**

- \* Measuring range : 0.4 to 30.0 m/s.
- \* Unit : m/s, km/h, MPH, knots, ft/min.
- \* Data hold, Record ( Max., Min. ).
- \* Tiny bone shape with light weight and small size.

**Model : LM-81AT**

- \* Same as LM-81AM but with Temp. measurement.



**LIGHT METER**

**Model : LM-81LX**

- \* 2,000 Lux, 20,000 Lux, auto range.
- \* 200 Ft-cd, 2,000 Ft-cd, auto range.
- \* Lux/Ft-cd unit select, zero adjust.
- \* Data hold, Record ( Max., Min. ).
- \* Tiny bone shape with light weight and small size.

**HUMIDITY METER**

**Model : LM-81HT**

- \* Humidity : 10 to 95 %RH.
- \* Temperature : 0 to 50.0 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* Tiny bone shape with light weight and small size.



**Pen type** SERIES  
**Cup Anemometer**  
**Humidity, Barometer**



**+ Temperature**  
**CUP ANEMOMETER**

**Model : AM-4221**

- \* Out side air speed measurement.
- \* 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Cup type probe, high reliability.
- \* LCD display, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP.**

**Model : ABH-4224**

- \* Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/ °F.
- \* All in one, hand held type.
- \* Cup type probe, no wind direction.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**CUP ANEMOMETER**

**Model : AM-4220**

- \* Out side air speed measurement.
- \* 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* All in one, hand held type.
- \* Cup type probe, high reliability.
- \* LCD display, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

**Pen type** SERIES  
**Vane Anemometer, Humidity**  
**Barometer, Light Meter**



**VANE ANEMOMETER/BAROMETER/HUMIDITY/TEMP.**

**Model : ABH-4225**

- \* Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Vane probe, high reliability.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**LIGHT METER**

**Model : PLX-111**

- \* 0 to 20,000 Lux, 0 to 1,860 Ft-cd.
- \* Unit : Lux, Ft-cd.
- \* Auto range.
- \* Pen type, all in one, easy carryout.
- \* Hold function to freeze display value.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**+ Temperature**

**VAN ANEMOMETER**

**Model : AM-4222**

- \* Air velocity : 0.4 to 30.0 m/s
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Unit : m/s, km/h, knots, ft/min, mile/h.
- \* Temp. : 0 to 50 °C, °C/°F.
- \* All in one, compact and handheld type.
- \* LCD display, Data hold.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

**VANE ANEMOMETER/HUMIDITY/TEMPERATURE**

**Model : AH-4223**

- \* Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Vane probe for anemometer.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**Pen type** SERIES  
**Humidity / Temp.**  
**Barometer, Type K Thermometer**



**HUMIDITY/BAROMETER/TEMP. METER**

**Model : PHB-318**

- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, pen type, easy carry out.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**HUMIDITY/TEMP. METER**

**Model : PHT-316**

- \* Humidity : 10% to 95% RH.
- \* Temperature : 0 to 50 °C.
- \* Temp. units : °C, °F. internal adjustment.
- \* Humidity measurement with fast response time
- \* All in one, pen type, easy carry out.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**THERMOMETER, all in 1**

**Model : PTM-816**

- \* Cooperate with the type K Temp. probe.
- \* Range : -40 to 230 °C x 0.1 °C.
- \* Units : °C, °F. internal adjustment.
- \* Meter with the probe, all in 1, easy operation.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* IP-67 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

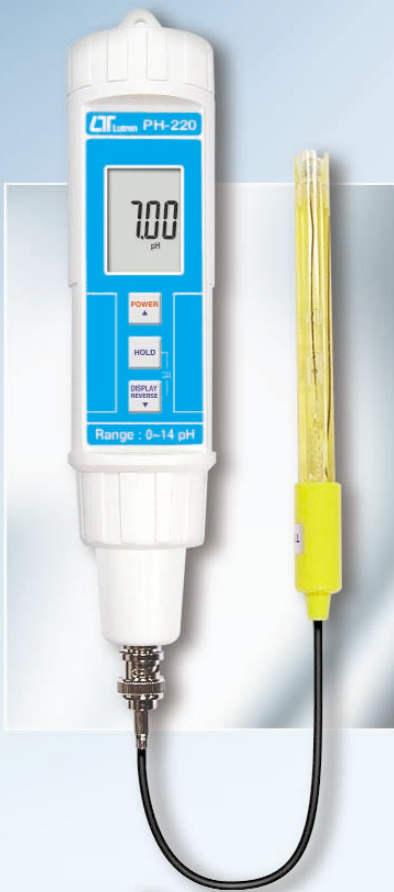


**Separate probe, type K**  
**THERMOMETER**

**Model : PTM-806**

- \* Cooperate with the type K Temp. probe.
- \* Range : -100 to 1300 °C x 0.1 °C.
- \* Units : °C, °F. internal adjustment.
- \* Separate probe, easy for remoting measurement.
- \* Temp. probe, TP-01 is included.
- \* Optional temp. probes : TP-02A, TP-03, TP-04.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.





**PEN PH METER**

**Model : PH-220**

- \* Separate pH electrode, easy for general purpose and remote measurement.
- \* 0 to 14.00 pH.
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Temp. adjustment is not necessary.
- \* IP-65 water proof.
- \* Pen type, easy carry out.
- \* Complete set with separate pH electrode ( PE-11 ) and pH 4, pH 7 standard solutions.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.



**PEN PH METER**

**Model : PH-222**

- \* 0 to 14.00 pH.
- \* ATC ( auto temperature compensation ).
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Meter with pH electrode, all in one.
- \* IP-67, water proof.
- \* Easy replacement for the pH electrode.
- \* Pen type, easy carry out.
- \* Data logger.
- \* pH 4, pH 7 standard solutions are included.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.

**PEN PH METER, economical type**

**Model : PH-223**

- \* 0 to 14.00 pH.



**SOIL PH METER**

**Model : PH-220S**

- \* Complete set with separate soil, spear tip pH electrode and pH 4 and pH 7 standard solutions.
- \* Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Temp. adjustment is not necessary.
- \* IP-65 water proof.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.
- \* Spear tip pH electrode, ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



**SALT METER**

**Model : PSA-311**

- \* Measurement : 0 to 12.0 % salt ( % weight value )
- \* Automatic temperature compensation.
- \* Meter is built-in test probe, all in 1, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

**ORP METER**

**Model : ORP-213**

- \* Range : -1,000 mV to 1,000 mV.
- \* Professional ORP electrode, ORP-14 is included.
- \* Separate ORP electrode, easy operation.
- \* High input impedance.
- \* Data hold.
- \* Built-in reverse display button.
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.



**Pen type** SERIES  
**Conductivity**  
**Dissolved Oxygen**



**DISSOLVED OXYGEN METER, all in 1**

**Model : PDO-519**

- \* Range : 0 to 20.0 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Automatic temperature compensation.
- \* Probe with the meter, all in one.
- \* Polarographic type oxygen electrode, professional.
- \* Data hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**CONDUCTIVITY METER**

**Model : PCD-431**

- \* 2 ranges : 2,000 uS, 20 mS.
- \* Temperature measurement, °C/°F.
- \* Automatic temperature compensation.
- \* Probe with the meter, all in one.
- \* Carbon rode electrode, high reliability.
- \* Data hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

**separate probe**  
**DISSOLVED OXYGEN METER**

**Model : PDO-520**

- \* Range : 0 to 20.0 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Automatic temperature compensation.
- \* Separate DO probe easy for remoting operation.
- \* Polarographic type oxygen electrode, professional.
- \* Data hold, Record ( max., min. ).
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**Separate probe**  
**CONDUCTIVITY METER**

**Model : PCD-432**

- \* 2 ranges : 2,000 uS, 20 mS.
- \* Temperature measurement, °C/°F.
- \* Automatic temperature compensation.
- \* Separate probe, easy for remorting operation.
- \* Carbon rode electrode, high reliability.
- \* Data hold, Record ( max., min. ).
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**Pen type**  
**Moisture, Soil Moisture**  
**Pure Water, Vibration**  
**UV, O<sub>2</sub>, CO**



**MOISTURE METER**

**Model : PMS-713**

- \* Wood and concrete moisture measurement.
- \* Wood material : 6 to 40% moisture content.
- \* Concrete material : 0 to 100% moisture content.
- \* Meter is built-in test probe, all in 1, easy operation.
- \* Hold function to freeze display value.
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**PEN VIBRATION METER**

**Model : PVB-820**

- \* Acceleration :  
200 m/s<sup>2</sup>, 20.00G.
- \* Velocity :  
200 mm/s, 20.00 cm/s



**PEN UV METER**

**Model : PUV-360**

- \* Acc. : 2 mW/cm<sup>2</sup>, 20 mW/cm.
- \* Calibration is under UVA light.
- \* Spectrum : 290 nm - 390nm.



**PURE WATER METER**

**Model : PWA-301**

- \* Water conditioning, aquarium, food processing, photography, school, laboratory, industrial and quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999 uS.
- \* Meter with the probe, all in 1, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



**PEN O<sub>2</sub> METER**

**Model : PO2-250**

- \* Oxygen in air.
- \* 0 to 30.0 % x 0.1 %.



**PEN CO METER**

**Model : PCO-350**

- \* 0 to 1000 ppm.
- \* Alarm beeper.



**SOIL MOISTURE METER**

**Model : PMS-714**

- \* Soil moisture content measurement.
- \* Range : 0 to 50 % moisture content.
- \* Heavy duty probe, probe length : 20 cm.
- \* Meter is built-in test probe, all in one, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

## OXYGEN METER

**Model : DO-5510HA**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Dissolved oxygen range: 0 to 20 mg/L.
- \* Max., Min., Memory recall button.
- \* DO, Oxygen in air, Temp., ATC, Auto cal.
- \* Probe head with diaphragm set and electrolyte are included.



(optional)



## PH METER

**Model : PH-207HA**

- \* 0 to 14 pH x 0.01 pH,  $\pm$ 1999 mV.
- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* pH, mV, Temp., manual Temp. adj. or ATC.
- \* PH electrodes (optional) : PE-03, PE-11, PE-01, PE-04HD, PE-06HDA, PE-03K7, refer to page 70.
- \* Size : 185 x 78 x 38 mm.



## CONDUCTIVITY METER

**Model : CD-4303HA**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* 200 $\mu$ S/2mS/20mS, ATC, Cell adj.
- \* Size : 185 x 78 x 38 mm.

## HUMIDITY METER, Temp., Dew point

**Model : HT-3015HA**

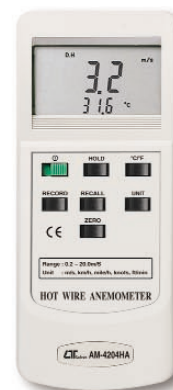
- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* 10%-95% RH, 0-50.0  $^{\circ}$ C,  $^{\circ}$ C/ $^{\circ}$ F, Dew point.
- \* Size : 185 x 78 x 38 mm.



## ANEMOMETER

**Model : AM-4203HA**

- \*  $\mu$ -P circuit, 0.4 to 25.0 m/s.
- \* Max., Min., Memory recall button.
- \* m/s, ft/min, km/h, mile/h, knots, Temp.( $^{\circ}$ C/ $^{\circ}$ F).
- \* Size : 185 x 78 x 38 mm.



## HOT WIRE ANEMOMETER

**Model : AM-4204HA**

- \* 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- \* m/s, ft/min, km/h, knots, mile/h,  $^{\circ}$ C/ $^{\circ}$ F.
- \* Max., Min., Data hold.
- \* Telescope probe.
- \* Size : 185 x 78 x 38 mm.



## MOISTURE METER

**Model : MS-7001**

- \* Range : 9% to 30% moisture content.
- \* Max., Min., Data hold.
- \* Economical Moisture meter.
- \* Size : 185 x 78 x 38 mm.



## MOISTURE METER

**Model : MS-7000HA**

- \* Range : 9% to 30% moisture content.
- \* 9 material species groups in memory.
- \* Max., Min., Data hold, Self-calibration.
- \* Professional Moisture meter.
- \* Size : 185 x 78 x 38 mm.



(optional)



## HUMIDITY/TEMP. METER, + type K/J Temp.

**Model : HT-3006HA**

- \* Humidity meter/%RH : 10 to 95 %RH.
- \* Humidity meter/Temp. : 0 to 50.0  $^{\circ}$ C,  $^{\circ}$ C/ $^{\circ}$ F.
- \* Type K Thermometer : -199.9 to 1300  $^{\circ}$ C,  $^{\circ}$ C/ $^{\circ}$ F.
- \* Type J Thermometer : -199.9 to 1100  $^{\circ}$ C,  $^{\circ}$ C/ $^{\circ}$ F
- \* Max., Min., data hold.
- \* Type K Temp. probes ( optional ) : TP-01, TP-02A, TP-03, TP-04, TP-05.



**MANOMETER, 2000 mBar, differential input  
Model : PM-9100HA**

- \* Dual & differential input, 2000 mbar x 1 mbar.
- \* mbar, psi, Kg/cm<sup>2</sup>, inch/Hg, mm/Hg, inch/H<sub>2</sub>O, meter/H<sub>2</sub>O, Atmosphere.
- \* Data hold, Memory ( Max., Min. ).
- \* Applications : Industrial, laboratory, schools, heating, ventilation, hospital, medical...



**THERMOMETER CALIBRATOR  
Model : TC-920**

- \* Type k thermocouple calibrator.
- \* Type k thermocouple thermometer.
- \* -199 °C to 1230 °C, -325 °F to 2246 °F.
- \* Resolution : 0.1 °C ( <1000 °C ).
- \* °C / °F, Data hold.
- \* Size : 185 x 78 x 38 mm.



**VOLTAGE/CURRENT CALIBRATOR  
Model : CC-421**

- \* Current source : 0 to 24 mA, 2 ranges.
- \* Current measurement : 0 to 24 mA, 2 ranges.
- \* Power ( 12 V ) and current measurement of two wire loop : 0 to 24 mA, 2 ranges.
- \* DC mV source : -199.9mV to +199.9mV.

**CURRENT CALIBRATOR  
Model : CC-422**



**VIBRATION METER  
Model : VB-8201HA**

- \* Professional vibration sensor included.
- \* Velocity : 200 mm/S.
- \* Acceleration : 200 m/S<sup>2</sup>.
- \* RMS, Peak Hold, Max./Min.
- \* Size : 185 x 78 x 38 mm.



**LIGHT METER  
Model : LX-107HA**

- \* 2,000/20,000/100,000 Lux, Data hold.
- \* Lux, Ft-candle, max., min., zero, 2 filters.
- \* Tungsten, Fluorescent, Mercury, Sodium, 4 light type select, microprocessor circuit.
- \* Size : 185 x 78 x 38 mm.



**PRECISION 0.01 degree THERMOMETER  
Model : TM-917HA**

- \* PT 100 ohm, thermocouple type K, J, R, E, T.
- \* Max. measurement range 1370 °C ( type K ).
- \* 0.01, 0.1 degree resolution,, Memory ( Max., Min. ).
- \* Professional thermometer with high accuracy.
- \* Size : 185 x 78 x 38 mm.

**PT 100 ohm TEMP. PROBE  
Model : TP-100**

(optional)

**DUAL THERMOMETER  
Model : TM-916HA**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* °C/°F, 0.1°/1°, T1, T2, T1-T2.
- \* Size : 185 x 78 x 38 mm.
- \* Temp. probes, optional.





### HOT WIRE ANEMOMETER

**Model : AM-4204**

- \* 0.2 - 20.0 m/s, high precision for low air velocity measurement, Telescope probe.
- \* m/s, ft/min, km/h, knots, mile/h, °C/°F.
- \* Max., Min., Data hold, RS232/USB interface.

### HOT WIRE ANEMOMETER, + air flow (CMM, CFM)

**Model : YK-2004AH**

### MOISTURE METER

**Model : MS-7000**

- \* Range : 9% to 30% moisture content.
- \* 9 material species groups in memory.
- \* Max., Min., Data hold, Self-calibration.
- \* Size : 180 x 72 x 32 mm. RS232/USB.

### CONCRETE / WOOD MOISTURE METER

**Model : MS-7002**



### LIGHT METER

**Model : LX-105**

- \*  $\mu$ -P circuit, 2,000/20,000/50,000 Lux.
- \* Max., Min., Memory recall button.
- \* Lux, Ft-candle, % values, wide range.
- \* 4 light type select by push button.
- \* Size : 180 x 72 x 32 mm. RS232/USB.



### ANEMOMETER, air flow + air velocity

**Model : AM-4206**

- \* CMM ( m<sup>3</sup>/min. ), CFM ( ft<sup>3</sup>/min. )
- \* m/s, ft/min, km/h, mile/h, knots, Temp.(°C/°F).
- \* 0.4 to 25.0 m/s.,  $\mu$ -P circuit.
- \* Max., Min., Memory recall button.
- \* Size : 180 x 72 x 32 mm. RS232/USB.

### ANEMOMETER, metal vane, air flow

**Model : AM-4206M**

- \* Range : 0.4 to 35.0 m/s.
- \* CMM ( m<sup>3</sup>/min. ), CFM ( ft<sup>3</sup>/min. ).
- \* Other function are same as AM-4206, use metal vane probe, heavy duty.



### ANEMOMETER

**Model : AM-4203**

- \*  $\mu$ -P circuit, 0.4 to 25.0 m/s.
- \* Max., Min., Memory recall button.
- \* m/s, ft/min, km/h, mile/h, knots, Temp.(°C/°F).
- \* Size : 180 x 72 x 32 mm. RS232/USB.



### HUMIDITY/ANEMOMETER METER, + type K/J

**Model : AM-4205A**

- \* Anemometer : 0.4 to 25.0 m/s. m/s, ft/min., km/h, mile/h, knots, Temp.
- \* Humidity meter / %RH : 10 to 95 %RH. Humidity/Temp. : 0 °C to 50 °C, °C/°F.
- \* Type K thermometer : -200 to 1300 °C, °C/°F.
- \* Type J thermometer : -200 to 1100 °C, °C/°F.
- \* Max., Min., data hold, RS232/USB interface.



### TORQUE METER, 15 Kg-cm

**Model : TQ-8800**

- \* Professional torque meter with separate probe.
- \* 15 Kg-cm torque sensor is included.
- \* 3 units : 15 Kg-cm/13 LB-inch/147.1 N-cm.
- \* Peak, Data hold, Zero, Max./ Min., Fast/Slow.
- \* Size : 180 x 72 x 32 mm. RS232/USB.

### UVA LIGHT METER Model : UVA-365A

### UVC LIGHT METER Model : UVC-254A

- \* Ultra-Violet radiometer.
- \* 199.9  $\mu$  W/cm<sup>2</sup>, 1.999, 19.99 mW/cm<sup>2</sup>.
- \* RS232, Data Hold.
- \* Max., Min., Memory recall button.
- \* Size : 180 x 72 x 32 mm. RS232/USB.





### CONDUCTIVITY METER

**Model : CD-4303**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* 200 $\mu$ S/2mS/20mS, ATC, Cell adj.
- \* Size : 180 x 72 x 32 mm. RS232/USB.

### PRESSURE SENSOR

**Model : PS100-xxBAR**

- \* Pressure sensor connected with PS-9302.
- \* PS100-2BAR : 2 bar sensor.
- \* PS100-5BAR : 5 bar sensor.
- \* PS100-10BAR : 10 bar sensor.
- \* PS100-20BAR : 20 bar sensor.
- \* PS100-50BAR : 50 bar sensor.
- \* PS100-100BAR : 100 bar sensor.
- \* PS100-400BAR : 400 bar sensor.



### PRESSURE METER, full line

**Model : PS-9302**

- \* Meter connects with 2, 5, 10, 20, 50, 100, 400 bar sensor, no calibration procedures are necessary when change a new sensor .
- \* Bar, PSI, Kg/cm<sup>2</sup>, inch/Hg, mm/Hg, inch/H<sub>2</sub>O, meter/H<sub>2</sub>O, Atmosphere.
- \* Data hold, Memory ( Max., Min. ), RS232/USB.
- \* Size : 180 x 72 x 32 mm.

### pH METER

**Model : PH-207**

- \* 0 to 14 pH x 0.01 pH,  $\pm$ 1,999 mV.
- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* pH, mV, Temp., manual Temp. adj. or ATC.
- \* Size : 180 x 72 x 32 mm. RS232/USB computer interface.
- \* pH electrodes (optional) : PE-03, PE-11, PE-04HD, PE-06HD, PE-01, PE-03K7.



### MANOMETER, 2000 mbar, differential input

**Model : PM-9100**

- \* Dual & differential input, 2000 mbar x 1 mbar.
- \* mbar, PSI, Kg/cm<sup>2</sup>, inch/Hg, mm/Hg, inch/H<sub>2</sub>O, meter/H<sub>2</sub>O, Atmosphere.
- \* Data hold, Memory ( Max., Min. ), RS232/USB.
- \* Application : Industrial, laboratory, schools, heating, ventilation, hospital, medical...
- \* Size : 180 x 72 x 32 mm.

### MANOMETER, 7000 mbar, differential input

**Model : PM-9107**

### MANOMETER, 200 mbar, differential input

**Model : PM-9102**



### Temp., Dew point, RS232

### HUMIDITY METER

**Model : HT-3015**

- \* Measurement : Humidity, Temp., Dew point
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* 1000 data logger no., RS232/USB interface.
- \* Optional data transmission software, SW-DL2005.
- \* Fast response time.
- \* Separate probe.
- \* LCD display, 006P DC 9 V battery.
- \* Size : 180 x 72 x 32 mm.



### HUMIDITY/TEMP. METER, + type K/J Temp.

**Model : HT-3006A**

- \* Humidity meter/%RH : 10 to 95 %RH.
- \* Humidity meter/Temp. : 0 to 50.0 °C, °C/°F.
- \* Type K thermometer : -199.9 to 1300 °C, °C/°F.
- \* Type J thermometer : -199.9 to 1100 °C, °C/°F.
- \* Max., Min., data hold, RS232/USB interface.
- \* Type K Temp. probe ( optional ) : TP-01, TP-02A, TP-03, TP-04, TP-05.



### OXYGEN METER

**Model : DO-5510**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Dissolved oxygen range : 0 to 20 mg/L.
- \* Max., Min., Memory recall button.
- \* DO, Oxygen in air, Temp., ATC, Auto Cal., % salt.
- \* Diaphragms & electrolyte included.
- \* Probe head with diaphragm set and electrolyte are included.
- \* Size : 180 x 72 x 32 mm. RS232/USB interface.



**VIBRATION METER**  
**Model : VB-8200**

- \* Separate professional vibration sensor.
- \* Velocity : 200 mm/s.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* RMS, Peak, RS232/USB, Hold, Record.

**VIBRATION METER**  
**Model : VB-8210**

- \* Built-in Metric & Imperial display unit.



**VIBRATION METER**

**Model : VB-8202**

- \* Separate professional vibration probe.
- \* Velocity : 200 mm/s.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* RMS, Peak, RS232/USB, Hold, Record.

**VIBRATION METER**

**Model : VB-8212**

- \* Built-in Metric & Imperial display units.



**Acc., Vel., Displacement, data logger**

**VIBRATION METER**

**Model : VB-8213**

- \* Acceleration : 200 m/s<sup>2</sup>.
- Velocity : 200 mm/s.
- Displacement : 2.0 mm.
- \* Max hold, peak value, data hold.
- \* Memory ( Max., Min. )
- \* LCD display with bar graph.
- \* 500 point data logger.
- \* Zero adjustment, RS232/USB interface.
- \* Optional data transmission software, SW-DL2005.
- \* Accelerator and hard carrying case are included.



**VIBRATION METER, Acc., Velocity, Disp.**

**Model : VB-8220**

- \* Separate professional vibration sensor.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* Velocity : 200 mm/s.
- \* Displacement ( p-p ) : 2 mm.
- \* RMS, Peak value.
- \* RS232/USB computer interface.
- \* Hard carrying case included.
- \* DC 9V battery ( 006P ).



**VACUUM METER**  
**Model : VC-9200**

- \* 1125 torr x 1 torr, 1500 mbar x 1 mbar.
- \* Units : torr, mm Hg, micron, KPa, Pa, inch Hg, psi.
- \* RS232/USB, Hold, Record ( Max., Min. ).
- \* Heavy duty vacuum sensor is used for air, oil gas...
- \* Applications : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...



**PRECISION 0.01 degree THERMOMETER**

**Model : TM-907A**

- \* Cooperate with PT 100 ohm probe, high accuracy.
- \* Max. measurement range -199.99 °C to 850 °C.
- \* 0.01/0.1 °C resolution, Memory, °C/°F select.
- \* 180 x 72 x 32 mm. RS232/USB.

**PT 100 ohm TEMP. PROBE**

**Model : TP-100**

(optional)

**PRECISION 0.01 degree THERMOMETER**

**Model : TM-917, RS-232/USB**

- \* PT 100 ohm + thermocouple type K, J, R, E, T.
- \* Max. measurement range 1370 °C ( type K ).
- \* 0.01°, 0.1° resolution, Memory ( Max., Min. ).
- \* Professional thermometer with high accuracy.

**PT 100 ohm TEMP. PROBE**

**Model : TP-100**



(optional)





### Real time data recorder SD CARD DATA LOGGER

**Model : DL-9602SD**

- \* Real time SD memory card Data logger, it can cooperate with most LUTRON instruments if it is built-in the computer interface.
- \* Innovation and easy operation, computer is not need to setup extra software, just takeaway the SD card from the DL-9602SD and plug it into the computer, then the measured values with the time information ( year/month/date/hour/minute/second ) can be downloaded to the Excel directly. User can make the further data or graphic analysis in the Excel by themselves.
- \* Built-in Clock and Calendar, real time data recorder, sampling time can be set from 2 seconds to 8 hours 59 minutes 59 seconds.

- \* Manual data logger is available ( set the sampling time to 0 ), during executing the manual data logger function, it can set the different place location No. ( place 1 to place 99 ).
- \* SD card ( optional ) capacity : 1 GB to 16 GB.
- \* Can set max. 9 channel data inputs with default.
- \* DC 1.5V battery ( UM-3 , AA ) x 6 or DC 9V adapter in.
- \* LCD with green light backlight, easy reading.
- \* RS232/USB computer interface.

### Humidity, Anemometer, Light, Type K/J ENVIRONMENT METER

**Model : EM-9100**

- \* 4 in 1 : Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- \* Humidity : 10 to 95 %RH, 0 to 50 °C.
- \* Light : 0 to 20,000 Lux.
- \* Anemometer : 0.4 to 25 m/s.
- \* Type K thermometer : -199.9 to 1300 °C, °C/°F.
- \* Type J thermometer : -199.9 to 1100 °C, °C/°F.
- \* Unit select, Data hold, REC ( max., min. ).
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record ( max., min. ).
- \* Optional sound level probe, SL-417.
- \* DC 9V battery ( 006P ).
- \* Type K Temp. probes ( optional ) : TP-01, TP-02A, TP-03, TP-04, TP-05.



### DUAL THERMOMETER, RS-232 Model : TM-906A

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Range : -50 to 1230 °C.
- \* Max., Min., Memory recall button.
- \* °C/°F, 0.1°/1°, T1, T2, T1-T2.
- \* Size : 180 x 72 x 32 mm.
- \* RS232/USB computer interface.

### DUAL THERMOMETER Model : TM-916

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Range : -50 to 1230 °C.
- \* Max., Min., Memory recall button.
- \* °C/°F, 0.1°/1°, T1, T2, T1-T2.
- \* Size : 180 x 72 x 32 mm.



# SD card data recorder Patented SERIES



## SD Card real time data recorder ANEMOMETER, + type K/J Temp.

**Model : AM-4207SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Air velocity/Temp. measurement, professional.
- \* 0.4 to 25.0 m/s, ft/min., km/h. knots, mile/h.
- \* Low friction ball-bearing vane.
- \* Separate probe, high reliability.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Type J Thermometer : -100 to 1200 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Patented.



## SD Card real time data recorder Air flow ( CMM. CFM )

**Mini vane**

## ANEMOMETER, + type K/J Temp.

**Model : AM-4233SD**

- \* Mini vane with 35mm Dia., low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
- \* Telescope probe, extension length 620 mm max.
- \* Replacement anemometer van set.
- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Air velocity/Temp. measurement, professional.
- \* 0.4 to 20.0 m/s, ft/min., km/h. knots, mile/h.
- \* Air flow : CMM, CFM.
- \* Low friction ball-bearing vane.
- \* Separate probe, high reliability.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Type J Thermometer : -100 to 1200 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Patented.



## SD Card real time data recorder HOT WIRE ANEMOMETER, + type K/J Temp.

**Model : AM-4214SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* 0.2 to 25.0 m/s, high precision for low air velocity measurement.
- \* m/s, ft/min, km/h, knots, mile/h, °C/°F.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.

- \* Type J Thermometer : -100 to 1200 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Patented.

# SD card data recorder Patented SERIES



## SD Card real time data recorder LIGHT METER + type K/J Temp.

**Model : LX-1128SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- \* 3 ranges, 2,000/20,000/100,000 Lux.
- \* Lux & Foot Candle unit selection with default.
- \* Auto range for light measurement.
- \* Sensor meet C.I.E. spectrum, 2 filters.
- \* Separate probe, easy operation.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Type J Thermometer : -100 to 1200 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB, Zero adjust.
- \* Patented.



## SD Card real time data recorder 4 channels THERMOMETER

**Model : TM-947SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- \* Type K/J/R/S/E/T, Pt 100 ohm, 4 displays.
- \* 4 channels ( T1, T2, T3, T4 ), T1-T2, °C/°F.
- \* Display 4 channels Temp. at the same time.
- \* Type K : -100 to 1300 °C.
- \* Type J : -100 to 1150 °C.
- \* Pt 100 ohm : -199 to 850 °C.
- \* °C/°F, 0.1 degree/1 degree.
- \* Data hold, Record ( max., min. ).
- \* RS232/USB computer interface.
- \* Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- \* Optional Pt-100 ohm Temp. probe, TP-101.
- \* Patented.



Optional Temp. probe

## SD Card real time data recorder HUMIDITY/TEMP. METER, + type K/J Temp.

**Model : HT-3007SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Humidity/%RH : 5 to 95 %RH.
- \* Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- \* Dew point, WET bulb.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Type J Thermometer : -100 to 1200 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Patented.



**SD Card real time data recorder**  
**SOUND LEVEL METER, class 2**

**Model : SL-4023SD**

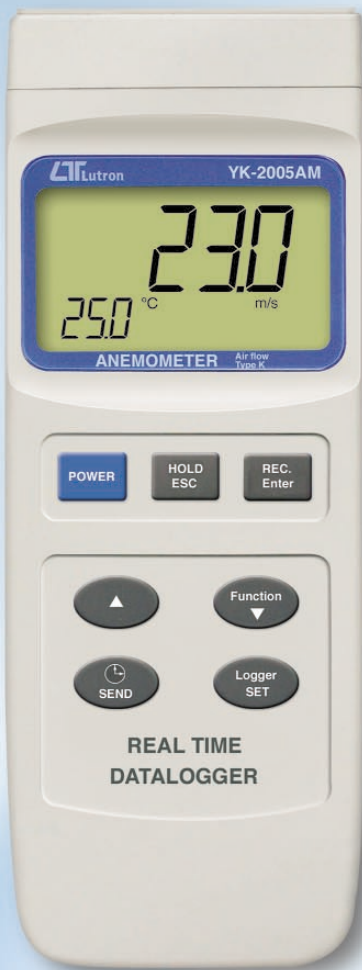
- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Frequency and time weighting meet IEC61672 class 2.
- \* Auto range : 30 to 130 dB.
- \* 3 manual ranges :  
30 to 80 dB, 50 to 100 dB, 80 to 130 dB.
- \* A/C frequency weighting.
- \* Fast/slow time weighting.
- \* Peak hold, Data hold.
- \* Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Optional wind shield ball, SB-01.
- \* Patented.



**SD Card real time data recorder**  
**Acceleration, Velocity**  
**VIBRATION METER**

**Model : VB-8205SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Acceleration : 200 m/s<sup>2</sup>.
- Velocity : 200 mm/s.
- \* Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- \* Professional vibration meter supply with vibration sensor and magnetic base, full set.
- \* Metric & Imperial display unit.
- \* Max hold, peak value, data hold.
- \* Memory ( Max., Min. ).
- \* Zero button.
- \* RS232/USB computer interface.
- \* Vibration sensor is the standard accessory.
- \* Patented.



**ANEMOMETER,**

*Real time data logger + air flow*

**Model : YK-2005AM**

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Air velocity, Air flow, Temp., type K/type J Thermometer.
- \* Metal vane, heavy duty.
- \* 0.4 to 30.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS232/USB computer interface.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.

**LIGHT METER, Real time data logger**

**Model : YK-2005LX**

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Ranges : 200/2,000/20,000/100,000 Lux.
- \* Units : Lux, Feet-candle.
- \* 4 light type selection.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* Max., Min., Data hold, zero adjust.
- \* RS232/USB computer interface.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



**HOT WIRE ANEMOMETER, air flow**

**Model : YK-2004AH**

- \* Air velocity, Air flow ( CMM, CFM ), Temperature.
- \* Hot wire anemometer, high precision for low air velocity measurement.
- \* Telescope and separate probe, easy operation.
- \* 0.2 to 20.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS232/USB computer interface.
- \* Jumbo LCD, unit with dot matrix display.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



**HOT WIRE ANEMOMETER, Real time data logger + air flow**

**Model : YK-2005AH**

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Air velocity, Air flow, Temp., type K/type J Thermometer.
- \* Hot wire anemometer, high precision for low air velocity measurement.
- \* Telescope probe.
- \* 0.2 to 20.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS232/USB computer interface.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



DO  
 OXPB-11  
 ( optional )



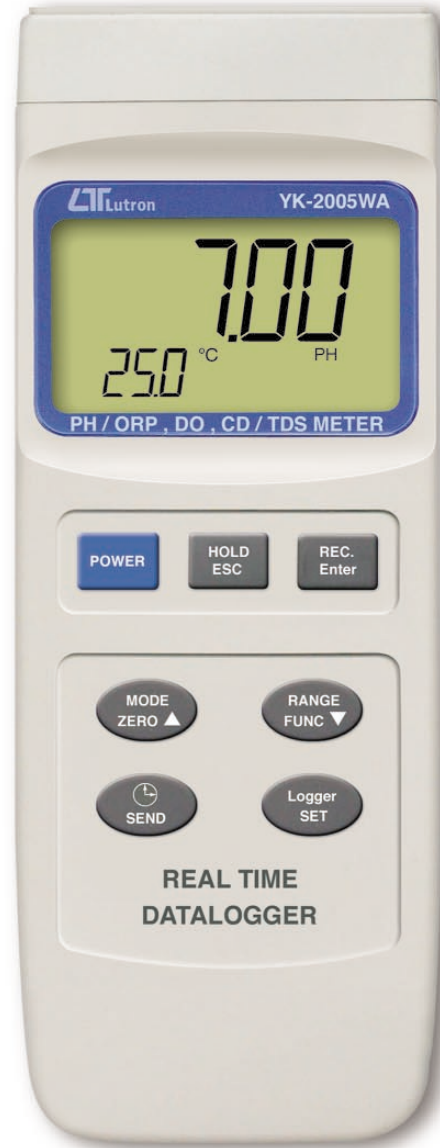
CD  
 CDPB-03  
 ( optional )



pH  
 PE-03  
 PE-11  
 PE-01  
 PE-02  
 PE-08  
 PE-06HDA  
 ( optional )



ATC  
 TP-07  
 ( optional )



**PH/ORP, DO, CD/TDS METER**

**Model : YK-2005WA**

- \* One meter for multi purpose operations :  
 pH/ORP, DO, CD/TDS METER.
- \* pH : 0 to 14.00 pH, ORP :  $\pm 1999$  mV.
- \* Conductivity : 200  $\mu$ S/2 mS/200 mS.
- \* Dissolved oxygen : 0 to 20.0 mg/L.
- \* ATC ( automatic temperature compensation ).
- \* Real time data logger ( record year,  
 month, date, hour, minute, second ), 16,000 data logger.
- \* Max., Min., Data hold.
- \* RS232/USB computer interface.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Optional electrodes : pH, CD/TDS, DO, ATC probe.
- \* Optional ORP electrode, ORP-14.
- \* Jumbo LCD, unit with dot matrix display.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



**4 light type, bar graph display, wide range LIGHT METER**

**Model : LX-1118**

- \* Large LCD display with bar graph.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Lux or Foot-candle unit selection.
- \* 4 light type select, RS232/USB interface.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* Data hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 6.



**ANEMOMETER**

**Model : MY-81AP**

- \* Range : 0.4 to 25.0 m/s.
- \* m/s, km/h, ft/min., knots, mile/h, Temp.
- \* Temp. : 0 to 50 °C, °C/°F.
- \* Low-friction ball vane wheels is accurate in both high & low velocity.
- \* LCD show both air velocity and Temp. value.
- \* Remote vane probe separately, easy operation.
- \* RS232/USB computer interface.
- \* Data hold, Record ( Max., Min. ).
- \* DC 1.5V ( UM-4, AAA ) battery x 6.



**HUMIDITY METER**

**Model : MY-91HT**

- \* Measurement : Humidity, Temp., Dew point.
- \* Humidity range : 10 % to 95 % R.H.
- \* Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- \* Dew point range : -25.3 °C to 48.9 °C.
- \* Resolution : 0.01% RH, 0.01 degree.
- \* Fast response time for humidity measurement.
- \* 1,000 point data logger.
- \* Optional data transmission software : SW-DL2005.
- \* Remote vane probe separately, easy operation.
- \* RS232/USB computer interface.
- \* Data hold, Record ( Max., Min. ).
- \* DC 1.5V ( UM-4, AAA ) battery x 6.

**THERMOMETER, Type K/J/R/E/T**

**Model : TM-9126**

- \* Type K : -50 to 1300 °C, 0.1 °C/0.1 °F.
- \* Type J : -50 to 1150 °C, 0.1 °C/0.1 °F.
- \* Type T : -50 to 400 °C, 0.1 °C/0.1 °F.
- \* Type E : -50 to 900 °C, 0.1 °C/0.1 °F.
- \* Type R : 0 to 600 °C, 1 °C/1 °F.
- \* Professional thermometer with multi-function.
- \* Optional full range temperature probe.
- \* RS232/USB computer interface.
- \* Data hold, Record ( Max., Min. ).
- \* DC 1.5V ( UM-4, AAA ) battery x 6.



Temp. probe ( optional )



# 4 CH. Thermometer SD Card Data Recorder



## 4 channels THERMOMETER

**Model : TM-946**

- \* Type K/J, Pt 100 ohm, 4 display.
- \* 4 channels ( T1, T2, T3, T4 ), T1-T2, °C/°F.
- \* Display 4 channels Temp. at the same time.
- \* Type K : -100 to 1300 °C.
- \* Type J : -100 to 1200 °C.
- \* Pt 100 ohm : -199 to 850 °C.
- \* °C/°F, 0.1 degree/1 degree.
- \* Data hold, Record ( max., min. ),Data logger.
- \* Optional data transmission softwares : SW-DL2005, SW-2005.
- \* RS232/USB computer interface, data logger.
- \* Optional Type K Temp. probes, TP-01, TP-02A, TP-03, TP-04, TP-05.
- \* Optional Pt 100 ohm Temp. probe, TP-101.
- \* DC 1.5V ( UM-4, AAA ) battery x 6 or DC 9V adapter in.



Optional Temp. probe

## SD Card real time data recorder

### 4 channels THERMOMETER

**Model : TM-947SD**

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- \* Type K/J/R/S/E/T, Pt 100 ohm, 4 displays.
- \* 4 channels ( T1, T2, T3, T4 ), T1-T2, °C/°F.
- \* Display 4 channels Temp. at the same time.
- \* Type K : -100 to 1300 °C.
- \* Type J : -100 to 1150 °C.
- \* Pt 100 ohm : -199 to 850 °C.
- \* °C/°F, 0.1 degree/1 degree.
- \* Data hold, Record ( max., min. ).
- \* RS232/USB computer interface.
- \* Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- \* Optional Pt-100 ohm Temp. probe, TP-101.
- \* Patented.

## ENVIRONMENT METER

Humidity, Anemometer, Light, Type K/J

Model : EM-9000

- \* 4 in 1 : Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- \* Humidity : 10 to 95 %RH, 0 to 50 °C.
- \* Light : 0 to 20,000 Lux.
- \* Anemometer : 0.4 to 25 m/s.
- \* Type K thermometer : -200 to 1300 °C, °C/°F.
- Type J thermometer : -200 to 1100 °C, °C/°F.
- \* Unit select, Data hold, REC ( max., min. ).
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record ( max., min. ).
- \* Optional sound level probe, SL-417.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



T1, T2, T1-T2, two displays

TWO CHANNEL THERMOMETER

Model : TM-925

- \* T1, T2, T1-T2, Type K/J.
- \* °C/°F, 0.1 degree/1 degree.
- \* Type K : -100 to 1300 °C.
- \* Type J : -100 to 1200 °C.
- \* Data hold, Record ( max., min. ).
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* RS232/USB interface, data logger.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



ANEMOMETER, + type K/J Temp.

Model : AM-4210

- \* Air velocity measurement, pocket size.
- \* 0.4 to 25.0 m/s, ft/min., km/h. knots, mph.
- \* Low friction ball-bearing vane.
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Separate probe, high reliability.
- \* Type K Thermometer : -200 to 1300 °C, °C/°F.
- \* Type J Thermometer : -200 to 1100 °C, °C/°F.
- \* RS232/USB interface, Record ( max., min. ).
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



LIGHT METER, + Type K/J TEMP.

Model : LX-110

- \* 0 to 20,000 Lux, 0 to 2,000 Ft-cd. auto range.
- \* Sensor meets C.I.E. spectrum.
- \* Light sensor with 2 filters, professional quality.
- \* Data hold, Record ( max., min. ).
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Separate probe, easy operation.
- \* Type K Thermometer : -199.9 to 1300 °C, °C/°F.
- \* Type J Thermometer : -199.9 to 1100 °C, °C/°F.
- \* RS232/USB computer interface.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



### DISSOLVED OXYGEN METER, *two displays*

#### Model : DO-5519

- \* Range : 0 to 20 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C.
- \* LCD display, pocket size.
- \* Automatic temperature compensation.
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record ( max., min. )
- \* Power : DC 9V battery ( 006P ) or DC 9V adapter in.

### CONDUCTIVITY METER,

#### *ATC, two displays*

#### Model : CD-4322

- \* 3 ranges : 2 mS, 20 mS, 100 mS.
- \* Temperature measurement, °C/ °F.
- \* LCD display, pocket type.
- \* Automatic temperature compensation.
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record ( max., min. )
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



### PH METER, *ATC, two displays*

#### Model : PH-221

- \* 0 to 14.00 pH, ±1,999 mV.
- \* LCD show both pH and the temperature.
- \* ATC or manual TEMP. compensation.
- \* Auto calibration for pH 4, pH 7 and pH 10.
- \* Optional pH electrode and the ATC probe.
- \* 1600 Data logger point.
- \* Optional data transmission softwares : SW-DL2005, SW-E2005.
- \* RS232/USB computer interface.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



pH electrode  
(Optional)

### PH METER, *economical type*

#### Model : PH-211

- \* 0 to 14 pH x 0.01 pH.
- \* Temp. compensation adjustment is not necessary.
- \* Pocket size, LCD display.
- \* Optional wall mount holder( WH-08 ) is available for monitoring usage.
- \* DC 9V battery ( 006P ).
- \* Size : 135 x 60 x 33 mm.



pH electrode  
(Optional)



**economical type  
POCKET HUMIDITY METER,**

**Model : HT-305**

- \* Measurement : Humidity, Temp., Dew point
- \* Pocket and compact housing case.
- \* Fast response time.
- \* Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C.
- \* Resolution : 0.1 %RH, 0.1 degree.
- \* DC 9V battery ( 006P ).
- \* Separate probe.
- \* Size : 135 x 60 x 33 mm.



**80 °C, wide temperature, RS232/USB  
POCKET HUMIDITY METER**

**Model : HT-315**

- \* Measurement : Humidity, Temp., Dew point.
- \* Pocket and compact housing case.
- \* Fast response time.
- \* Humidity : 10 to 95 %RH , Temp. : 0 to 80 °C.
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* Data logger with 1000 reading value.
- \* DC 9V battery or AC/DC adapter power in.
- \* RS232/USB interface, separate probe.
- \* Size : 135 x 60 x 33 mm.



**all in 1, RS232/USB  
HUMIDITY/TEMP. METER**

**Model : HT-306**

- \* Measurement : Humidity, Temp., Dew point
- \* Humidity : 10 to 95 %RH, Temp. : 0 to 50 °C.
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* Fast response time.
- \* Data hold, Record ( max., min. ).
- \* Meter is built-in probe, all in one, easy operation.
- \* RS232/USB computer interface.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



**CASE WALL HOLDER**

**Model : WH-08**

- \* Optional accessory ( case wall holder ) for TM-925, EM-9000, AM-4210, LX-110, DO-5519, PH-211, PH-221, CD-4312, CD-4322, HT-305, HT-306 HT-315.

CD

## POCKET CONDUCTIVITY METER

Model : CD-4302

- \* 12.5 mm(0.5 ") LCD, max. display 1999.
- \* 2 ranges : 0 -1.999 mS, 2 -19.99 mS.
- \* Automatic temperature compensation.
- \* Size : 131 x 70 x 25 mm, Pocket size.



pH

## pH METER, pocket

Model : PH-201

- \* 0 to 14 pH x 0.01 pH.
- \* Economical type, pocket size.
- \* Accuracy :  $\pm 0.1$  pH (pH 4 to pH 10)
- \* Size : 131 x 70 x 25 mm, 13 mm LCD.
- \* pH electrodes (optional) : PE-01, PE-03, PE-04HD, PE-06HDA, PE-11.

(optional)



## PURE WATER TESTER

Model : WA-300

- \* Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999  $\mu$ S.

ORP



(optional)

## ORP METER

Model : ORP-203

- \* Range : -1999 mV to + 1999 mV.
- \* High impedance, pocket size.
- \* Size : 131 x 70 x 25 mm, 13 mm LCD.

## ORP ELECTRODE, professional

Model : ORP-14

- \* Professional ORP electrode with high accuracy and extreme reliability.
- \* Epoxy body, with BNC connector.
- \* Size : 12.5mm Dia. x 120 mm.

DO



## DISSOLVED OXYGEN METER

Model : DO-5509

- \* Range : 0 to 20 mg/L.
- \* ATC. Resolution : 0.1 mg/L.
- \* Pocket size, 13 mm LCD.
- \* Size : 131 x 70 x 25 mm.

## SPARE PROBE HEAD WITH DIAPHRAGM SET

Model : OXHD-04

- \* Exclusive DO probe head with diaphragm set for DO-5509, DO-5510, YK-22DOA, PDO-519, PDO-520, DO-5519, DO-5510HA and YK-200PDO.



## PROBE-FILLING ELECTROLYTE

Model : OXEL-03

- \* Exclusive probe-filling electrolyte for oxygen probe of the DO-5509, DO-5510, YK-22DOA, PDO-519, PDO-520, DO-5519, DO-5510HA and YK-200PDO.
- \* Bottle size : 3.8 cm Dia. x 7 cm.



## ANEMOMETER

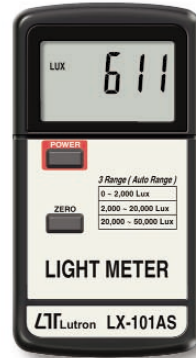
Model : AM-4200

- \* 0.8 to 30.0 m/s, ft/min., km/h, knots.
- \* Pocket size, economical cost.
- \* Low-friction ball-bearing vane.
- \* 131 x 70 x 25 mm, Sensor - 72 mm dia.
- \* Separate probe, high reliability.

## LIGHT METER

### Model : LX-100

- \* LX-100 : 2,000 Lux, 20,000 Lux.
- \* Sensor meets C.I.E. photopic spectrum .
- \* Economical cost, professional quality.
- \* Separate probe.
- \* Size : 131 x 70 x 25 mm.



## LIGHT METER

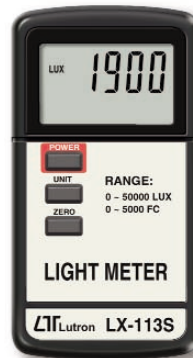
### Model : LX-101AS

- \* 3 ranges ( Auto range ) :  
2,000, 20,000 Lux, 50,000 Lux.
- \* Zero button.
- \* Spectrum meets C.I.E. photopic spectrum.
- \* Sensor with 2 filters, professional quality.
- \* Separate probe, Size : 131 x 70 x 25 mm.

## LIGHT METER

### Model : LX-100F

- \* LX-100F : 200, 2,000 Foot-candle.
- \* Sensor meets C.I.E. photopic spectrum .
- \* Economical cost, professional quality.
- \* Separate probe.
- \* Size : 131 x 70 x 25 mm.



## Auto range, LIGHT METER

### Model : LX-113S

- \* 2,000/20,000/50,000 Lux , Auto range.
- \* Lux & Ft-candle unit select.
- \* Sensor with color correction, 2 filters.
- \* Sensor spectrum meets C.I.E.
- \* Zero key function.
- \* Separate light probe, easy operation
- \* Microprocessor circuit.
- \* Size : 131 x 70 x 25 mm.
- \* DC 9V battery ( 006 P ) .

UV



## UV LIGHT METER, pocket

### Model : UV-340A

- \* Spectrum : 290 nm -390 nm.
- \* Application :  
UVA & UVB measurement.
- \* 2 ranges :  
1999  $\mu\text{W}/\text{cm}^2 \times 1 \mu\text{W}/\text{cm}^2$ .  
19990  $\mu\text{W}/\text{cm}^2 \times 10 \mu\text{W}/\text{cm}^2$ .
- \* Pocket size.
- \* Microprocessor circuit.
- \* Separate probe easy operation.



## DUAL CHANNEL THERMOMETER

### Model : TM-914C

- \* Range : -40 to 1200 °C.
- \* Type K, dual channel, pocket size.
- \* Size : 131 x 70 x 25 mm.



EMF

## EMF TESTER

### Model : EMF-822A

- \* Electromagnetic field radiation tester.
- \* 20 micro Tesla x 0.01 micro Tesla
- \* 200 milli Gauss x 0.1 milli Gauss
- \* Display : 13 mm LCD. Pocket size.
- \* Size : 131 x 70 x 25 mm



### INTELLIGENT THERMOMETER

#### Model : YK-2001TM

- \* Type K/J thermometer with "plug and play" function.
- \* Type K ( -100 to 1300 °C ),  
Type J ( -100 to 1150 °C ).
- \* Be plugged with an optional "plug & play" probe :  
YK-200PAL, YK-200PAM,  
YK-200PLX to be a professional  
Anemometer, Mini Vane Anemometer,  
or Light Meter.
- \* RS232/USB, Hold, Memory record,  
°C/°F, 0.1 degree.

### TYPE K TEMPERATURE PROBE

#### TP-01 :

-40 to 250 °C, Naked-bead.

#### TP-02A:

-50 to 900 °C, 3.2 mm Dia. x 12 cm.

#### TP-03 :

-40 to 1050 °C, 8 mm Dia. x 13.6 cm.

#### TP-04 :

-50 to 400 °C, surface probe.



TP-01 TP-02A TP-03 TP-04

### LIGHT PROBE

#### Model : YK-200PLX

- \* Plug in the YK-2001TM to be a professional Light Meter.
- \* Lux : 2,000 - 50,000 Lux, 3 ranges.
- \* Foot-candle :
- \* 200 - 5,000 Fc, 3 ranges.
- \* Units : Lux, Foot-candle (Fc).



### ANEMOMETER PROBE

#### Model : YK-200PAL

- \* Plug in the YK-2001TM to be a professional Anemometer.
- \* Range : 0.4 - 25.0 m/s x 0.1 m/s.
- \* Units : m/s, ft/min., km/h, mile/h, knots, °C/°F.



### Metal ANEMOMETER PROBE

#### Model : YK-200PAM

- \* Plug in YK-2001TM to be used as a professional Anemometer.
- \* Range : 0.4 to 35 m/s.
- \* m/s, km/h, MPH, knots, ft/min, °C/ °F.
- \* Metal probe, heavy duty.





CD/TDS/Salt  
CDPB-03  
( included )



CD/TDS/Salt  
Pt probe  
CDPB-04  
( optional )

pH electrode  
PE-03  
PE-11  
PE-01  
PE-02  
PE-08  
PE-06HDA  
PE-04HD  
( optional )



DO probe  
OXPB-11  
( optional )



pH ATC probe  
TP-07  
( optional )



**pH METER**

**Model : YK-2001PHA**

- \* One meter for multi purpose operation :  
pH/ORP, CD/TDS, Dissolved Oxygen, Salt measurement.
- \* pH : 0 to 14.00 pH, ORP :  $\pm 1999$  mV.
- \* Conductivity : 200  $\mu$ S/2 mS/20 mS/200 mS.
- \* Dissolved oxygen : 0 to 20.0 mg/L.
- \* Salt : 0 to 12 % salt ( % weight ).
- \* CD/TDS/Salt probe is included.
- \* Optional PH, ORP, Dissolved Oxygen and pH ATC probe.
- \* pH measurement can select ATC or manual temperature adjustment.
- \* pH measurement can make the auto calibration
- \* Conductivity measurement can select Temp. Coefficient of measurement solution.
- \* ATC for the conductivity measurement.
- \* Dissolved oxygen meter use the polar graphic type oxygen probe with temperature sensor, high precision measurement.
- \* Power by DC 9V ( 006 P ) battery or DC 9V adapter in.
- \* RS232/USB computer interface.





**10 Ampere max. test current  
Micro-Ohm METER**

**Model : MO-2014**

- \* Measurement ranges :  
60000  $\mu\Omega$ , 600 m $\Omega$ , 6000 m $\Omega$ , 60000 m $\Omega$ ,  
600  $\Omega$ , 6000  $\Omega$ .
- \* Test current :  
10 A, 1 A, 100 mA, 10 mA, 1 mA, 100  $\mu$ A.
- \* 4 wires with 2 Kelvin clips is included.
- \* Hi / Lo limit setting.
- \* Hold function.
- \* Backlight function easy readout.
- \* Built-in over-input and low battery indications.
- \* RS232 / USB computer interface.
- \* Power supply :  
1. 600 m $\Omega$ , 6  $\Omega$ , 60  $\Omega$ , 600  $\Omega$ , 6 K $\Omega$  ranges  
: DC 1.5V ( UM-3/AA ) battery x 8 PCs.  
2. 60000  $\mu\Omega$  range : DCV power supply via  
external AC/DC adapter, 90-260ACV/DC  
adapter is the standard accessory.
- \* Ideal for measuring the resistance of  
components precisely.
- \* Ideal for testing protective conductors,  
lightning conductors and welded points.
- \* Good / Fail set-function for input quality  
control.
- \* Especial " CALCULATE " function to measure  
cable/wire length.
- \* Optional USB cable, USB-01.
- \* Optional data acquisition software,  
SW-U801-WIN.
- \* Optional Excel data acquisition software,  
SW-E802.

**10 Amp Micro-Ohm meter  
Milliohm meter** SERIES



**HIGH PRECISION MILLIOHM METER**

**Model : MO-2013**

- \* Professional bench type milliohm meter.
- \* 20 m /200 m /2 /20 /200 /2 K /20 K ohm.
- \* 20,000 counts, Jumbo LCD with back light.
- \* Hi / Lo warning, 4 wires terminals, Kelvin clips is included, 0.001 milliohm resolution.
- \* Judgement output : Low/Good/High port, used for the automatic machine to select the components ( good or no good ).
- \* Power : AC 110V or AC 220 V/AC230 V.



**MILLIOHM METER**

**Model : MO-2002 (AC 110V)**

**Model : MO-2002 (AC 220V/AC 230V)**

- \* 20 m $\Omega$ /200 m $\Omega$ /2  $\Omega$ /20  $\Omega$ /200  $\Omega$ /2 K $\Omega$   
/20 K $\Omega$
- \* HI / LO warning setup.
- \* Large red LED display, 20.4 mm digit height.
- \* 4 terminal inputs, high accuracy.
- \* 4 wires with 2 Kelvin clips, KV-05 is included.
- \* Bench type, professional.
- \* Power : AC 110 V or AC 220 V/AC230 V.

**MILLIOHM METER**

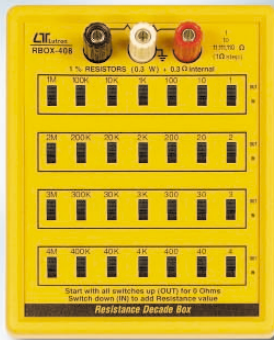
**Model : MO-2001 (AC 110V)**

**Model : MO-2001 (AC 220V/AC 230V)**

- \* 200 m $\Omega$ /2000 m $\Omega$ /20  $\Omega$ /200  $\Omega$ /2000  $\Omega$ .
- \* 4 terminal inputs, high accuracy.
- \* Size : 160 x 120 x 85 mm.
- \* 4 wire with 2 kelvin clips, KV-05 is included.
- \* Optional soft carrying case, CA-3K.
- \* Power : AC 110V or AC 220 V/AC230 V.



## R Box

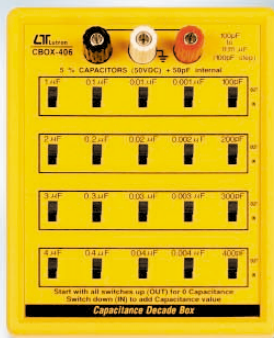


### RESISTANCE DECADE BOX

**Model : RBOX-408**

- \* 1 to 11,111,110 ohm, 1 ohm per step.
- \* Wattage : 1W
- \* Slide switches that allow the user to simply add or subtract for desired value.
- \* With seven decades of resistance.
- \* ABS plastic housing case, rugged components.
- \* Education, Maintenance, Production line, Working standards, Research, laboratory applications.
- \* Size : 147 x 117 x 51 mm.

## C Box

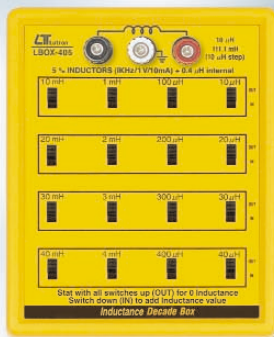


### CAPACITANCE DECADE BOX

**Model : CBOX-406**

- \* 100 pF to 11,111 μF, 100 pF per step.
- \* Slide switches that allow the user to simply add or subtract for desired value.
- \* With five decades of capacitance.
- \* ABS plastic housing case, rugged components.
- \* Education, Maintenance, Production line, Working standards, Research, laboratory applications.
- \* Size : 147 x 117 x 51 mm.

## L Box



### INDUCTANCE DECADE BOX

**Model : LBOX-405**

- \* 10 uH to 111.1 mH, 10 uH per step.
- \* Slide switches that allow the user to simply add or subtract for desired value.
- \* With four decades of inductance.
- \* ABS plastic housing case, rugged components.
- \* Education, maintenance, Production Line, Working standards, Research, Laboratory applications.
- \* Size : 147 x 117 x 51 mm.

## pH



### pH BENCH METER

**Model : PH-202**

- \* 0 to 14 pH x 0.01 pH.
- \* Bench type pH meter.
- \* Accuracy :  $\pm 0.1$  pH ( pH 4 to pH 10 ).
- \* Easy operation.
- \* Water resistance on the front panel.
- \* Applications : Education, School, Laboratory, Industrial & Quality control.
- \* Size : 147 x 117 x 51 mm.



### DCV BENCH METER

**Model : DV-101**

- \* Ranges : DC 200 mV/2 V/20 V/200 V.
- \* LCD display, 18 mm digit height.



### ACV BENCH METER

**Model : AV-102**

- \* Ranges : AC 2 V/20 V/200 V/600 V.
- \* LCD display, 18 mm digit height.



### DCA BENCH METER

**Model : DA-103**

- \* Ranges : DC 2 mA/20 mA/200 mA/5 A.
- \* LCD display, 18 mm digit height.



### ACA BENCH METER

**Model : AA-104**

- \* Ranges : AC 2 mA/20 mA/200 mA/5 A.
- \* LCD display, 18 mm digit height.
- \* Applications : Education, Maintenance, Production line, Working standards, Research, laboratory.

Green Power and Smart



**true RMS, auto range  
CAT III 1000V TRUE RMS DMM**

**Model : DM-9961**

- \* CAT III-1000V, 4000 counts, auto/manual range.
- \* Large LCD, digit height 23 mm.
- \* ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- \* Hz/Duty cycle, Capacitance, diode.
- \* Data hold, Relative, range hold.
- \* 10 Amp. current with fuse protection.



**CAT III-1000V AUTO RANGE DMM, bar graph**

**Model : DM-9960**

- \* CAT III-1000V, bar graph, super large LCD.
- \* 4000 counts, auto/manual range.
- \* ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- \* Hz, Capacitance, Temperature, diode.
- \* Peak, Data hold, Relative, Max//Min.
- \* Range Hold, RS-232 interface.
- \* 10 Amp. current with fuse protection.



**4 1/2 digits DMM, true rms**

**Model : DM-9027T**

- \* 30 ranges, 15 mm LCD with display unit.
- \* DCV, ACV, ACA, DCA(10A), ACA(10A), ohms, hFE, Diode, Hold, Beeper.
- \* Size : 185 x 87 x 39 mm.



**Green power, hybrid power  
SMART MULTIMETER**

**Model : DM-9982G**

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, 2 intelligent functions : V,  $\Omega$ .
- \* V : ACV, DCV measurement automatically.
- \*  $\Omega$  : Ohm, Diode, Continuity, Cap. automatically.
- \* Large LCD display, 6,000 counts.
- \* CAT III-600V.
- \* Auto power off.
- \* DIY version, easy operation.
- \* Size : 151 x 78 x 43 mm.
- \* Patented.

Green Power and Smart



**Green power, hybrid power  
SMART MULTIMETER**

**Model : DM-9983G**

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, 3 intelligent functions : V,  $\Omega$ , A.
- \* V : ACV, DCV measurement automatically.
- \*  $\Omega$  : Ohm, Diode, Continuity, Cap. automatically.
- \* A : DCA, ACA, 10A/60mA/600mA.
- \* Function Keys : Hold / Select / Hz / Range.
- \* Large LCD display, 6,000 counts.
- \* CAT III-600V, Auto power off.
- \* Size : 151 x 78 x 43 mm.
- \* Patented.



**POCKET DMM**

**Model : DM-9020**

- \* Multi-functions, pocket size.
- \* 26 ranges, DCV, ACV, ohms, hFE, DCA(2A), ACA(2A), Diode.
- \* Size : 120 x 72 x 37 mm.



**3 1/2 digits DMM,**

**Multi-functions**

**Model : DM-9090**

- \* Multi-functions, 40 ranges, DCV, ACV, ohms, DCA/ACA(10A), hFE, Diode, Hz, Temp., Capacitance, Beeper.
- \* Size : 185 x 87 x 39 mm.

**Model : DM-9080**

- \* DCV, ACV, DCA, ACA, ohms, hFE, Diode only.

**Kits, RS232 cable + software + carrying case  
MULTIMETER**

**Model : DM-9680 KITS**

- \* Photo couple isolate RS232/USB interface.
- \* Multi-functions, 29 ranges, DCV, ACV, ohms, DCA, ACA, hFE, Diode, Beeper.
- \* Whole set with DMM, RS232 cable, carrying case & application software.
- \* USB cable, USB-01 is optional.
- \* Meter size : 185 x 87 x 39 mm. 18 mm LCD.



**SMD TESTER**

**Model : SMDA-22**

- \* Optional SMD tester for LCR-9184, LCR-9183.
- \* Useful tool for SMD components ( Resistor, Capacitor, Inductor ) LCR value measurement.



SMDA-22

SMDC-21

**SMD TEST CLIP**

**Model : SMDC-21**

- \* Optional SMD test clip for LCR-9184, LCR-9183.
- \* Useful test clip for SMD components ( Resistor, Capacitor, Inductor ) LCR value measurement.

**HEAVY DUTY TEST LEAD**

**Model : TL-339R**

- \* CATIII-1000V approval.
- \* For EUROPE usage.

**HEAVY ALLIGATORS+TEST LEAD SET**

**Model : LN-A37 + LN-S05**



LN-A37

TL-339R

TL-02AS

TL-02AS

**ALLIGATOR TEST LEAD**

**Model : TL-02AS**

- \* High quality test lead with silicon rubber wire & alligator clip sets.

**SMD TEST CLIPS**

**Model : TL-02AS**

- \* The test clips used for measuring the SMD components ( resistor, capacitor, inductor, diode.. )
- \* Cable length : approx x 90 cm.

**LCR, Capacitance Holster** SERIES



**100 Hz/120 Hz/1 KHz/10 KHz/100 KHz LCR METER, professional**

**Model : LCR-9184, LCR-9183**

- \* Auto LCR smart check and measurement.
- \* 100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
- \* Test ranges : ( ex : F = 1 KHz )  
L : 200.00 uH to 2000.0 H  
C : 2000.0 pF to 2.000 mF  
R : 20.000 to 200.0 M
- \* Series/Parallel modes are selectable.
- \* DCR mode 200.00 to 200.0M
- \* Ls/Lp/Cs/Cp with D / Q // ESR Parameter.
- \* RS232/USB computer interface.
- \* Optional data acquisition software, SW-E803.
- \* Optional SMD test clips, SMDC-21.
- \* Optional SMD tester, SMDA-22.

**POCKET LCR METER**

**Model : LCR-9063**

- \* Pocket size, 13 mm LCD, Max. 1999.
- \* L- 5 ranges, 2 mH to 20 H.
- \* C- 6 ranges, 2 nF to 200 uF.
- \* R- 6 ranges, 200 ohm to 20 M ohm.
- \* Economical type.
- \* Size : 120 x 72 x 37 mm.



**LCR**

**LCR METER**

**Model : LCR-9083**

- \* Inductance, Capacitance, Resistance, Diode.
- \* L : 5 ranges, 2mH to 20H.
- \* C : 6 ranges, 2 nF to 200 uF.
- \* R : 6 ranges, 200 ohm to 20 M ohm.
- \* Size : 185 x 87 x 39 mm, 18 mm LCD.

**CAPACITANCE METER**

**MODEL : DM-9023**

- \* 9 ranges, 200pF, 2nF, 20nF, 200nF, 2 uF, 20 uF, 200 uF, 2000 uF, 20000 uF.
- \* Rotary sw., 18 mm LCD, Max. 1999.
- \* Size : 185 x 87 x 39 mm.

**HOLSTER**

**Model : HS-01**

- \* High quality rubber protective holster.
- \* Application for : DM-9090, DM-9080, DM-9027T, DM-9680, LCR-9083, DM-9023.

**Model : HS-02**

- \* Refer to page 40.



# AC / DC Clamp ACA Leakage Fork Current Tester



## 2000 A DCA/ACA CLAMP METER + DMM, True rms

**Model : CM-9930**

- \* Heavy duty, CATIII-1000V.
- \* 4,000 counts.
- \* Auto range, Panel water resistance.
- \* ACA(2000A, 400A), DCA(2000A, 400A), DCV, ACV, Capacitance, Frequency, Duty cycle, Relative, Continuity, ohms.
- \* 51 mm measuring conductor size.
- \* 240  $\mu$ A - 240 mA small direct current input.
- \* Size : 255 x 73 x 38 mm.
- \* Model, CM-9930R is with RS232 data output.

Smart



## ACA LEAKAGE TESTER, auto range

**Model : DL-9954**

- \* High precision mA leakage measuring.
- \* ACA 40 mA x 0.01 mA
- \* ACA 400 mA x 0.1 mA
- \* ACA 40 A, 120 A.
- \* Ohms, Diode, Continuity beeper, hold.
- \* AC voltage, DC voltage.
- \* LCD display.
- \* DC 1.5V battery (UM-3, AA) x 2.



## SMART CLAMP METER

**Model : CM-9941**

- \* Heavy duty, CAT III 600V.
- \* Smart operation, built-in 3 intelligent functions : A, V,  $\Omega$ , Hz
- \* V " function can choose the ACV, DCV automatically with auto range.
- \*  $\Omega$  " function can choose the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range.
- \* A " function can measure ACA ( 600A, 60A ) with auto range.
- \* 6,000 counts display.
- \* 30 mm measuring conductor size.
- \* Size : 178 x 64 x 33 mm.



## Mini DCA/ACA CLAMP METER

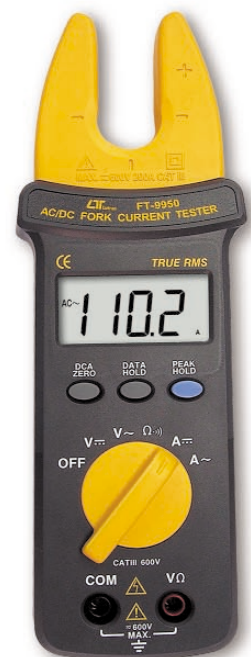
**Model : CM-9940**

- \* Heavy duty, CATIII-600V.
- \* 4,000 counts.
- \* Auto range, Panel water resistance.
- \* ACA( 600A, 400 A ), DCA ( 600A, 400A ), DCV, ACV, Hz, Continuity, Diode, ohms.
- \* 30 mm measuring conductor size.
- \* Size : 178 x 64 x 33 mm.

## AC/DC FORK CURRENT TESTER

**Model : FT-9950**

- \* Heavy duty, CATIII-600V.
- \* Fork current probe for both ACA and DCA.
- \* ACA ( 200 A x 0.1 A ), DCA ( 200 A x 0.1 A ).
- \* DCV, ACV, ohms, Continuity beeper.
- \* Data hold, Peak hold, DCA zero.
- \* Hall effect sensor for current sensing.
- \* DC 9V battery ( 006P ).



# Clamp, Power Clamp ACA Leakage SERIES

Smart  
Green  
Power



## Green power, Hybrid power CLAMP METER, smart

**Model : CM-9942G**

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, functions : A, V,  $\Omega$ .
- \* V : ACV, DCV.
- \*  $\Omega$  : Resistance, Diode, Continuity, Capacitance.
- \* A : ACA ( 600A, 1000A ) with auto range.
- \* Function key : Hz, Hold.
- \* Heavy duty, CAT III-600V.
- \* Patented.



## ACA LEAKAGE TESTER, auto range

**Model : DL-9954**

- \* High precision mA leakage measuring.
- \* ACA 40 mA x 0.01 mA.
- \* ACA 400 mA x 0.1 mA.
- \* ACA 40 A, 120 A.
- \* Ohms, Diode, Continuity beeper, hold.
- \* AC voltage, DC voltage.
- \* LCD display.
- \* DC 1.5V battery ( UM-3, AA ) x 2.

## Smart, 2,000 A, + max. hold DCA/ACA CLAMP METER

**Model : CM-6158**

- \* V : Smart ACV/DCV Automatically.
- \*  $\Omega$  : Resistance, Diode, Continuity, Capacitance. Automatically.
- \* 600A : Smart DCA/ACA.
- \* 2000A : Smart DCA/ACA.
- \* Function keys : Select, Zero, Hz, Max/Min, Range, Hold.
- \* CAT III 1000V, CAT IV 600V.
- \* Max. hold ( Max., Min. measuring value ).
- \* 48 mm measuring conductor size.
- \* Auto power off.



## Smart, 1,000 A, + max. hold, + Temp. DCA/ACA CLAMP METER

**Model : CM-6155C**

- \* V : Smart ACV/DCV Automatically.
- \*  $\Omega$  : Resistance, Diode, Continuity, Capacitance. Automatically.
- \* 600A : Smart DCA/ACA.
- \* 1000A : Smart DCA/ACA.
- \* Temp. ( type K ) : -20 °C to 750 °C.
- \* Function keys : Select, Zero, Hz, Max/Min, Range, Hold.
- \* CAT III 1000V, CAT IV 600V.
- \* Max. hold ( Max., Min. measuring value ).
- \* 32 mm measuring conductor size.
- \* Auto power off.
- \* Type K Temp. probes, TP-01, TP-02A, TP-03, TP-04, TP-05 are optional.



**Model : CM-6155F**

- \* Same function as CM-6155C, but Temp. unit is °F instead of °C.
- \* Temp. ( type K ) : -4 °F to 1382 °F.



## POWER CLAMP METER, high power

**Model : PC-6010**

- \* Watt resolution : min. 10 watt.
- \* Watt ( AC, true, 20 KW/100 KW ).
- \* ACA ( 200A, 600A ), AC 600V, DC 200V, 2 K ohms, diode.
- \* Size : 230 x 74 x 38 mm.



## ACA LEAKAGE TESTER

**Model : DL-6054**

- \* AC 200 mA x 0.1 mA, AC 20 A x 0.01 A, AC 200A x 0.1 A.
- \* High precision mA leakage measuring.
- \* Size : 180 x 47 x 35 mm.



## POWER CLAMP METER, low power

**Model : PC-6009**

- \* High watt resolution : min. 1 watt.
- \* Watt ( AC, true, 2,000/10,000 W ).
- \* ACA ( 200A, 600A ), AC 600V, DC 200V, 2 K ohms, diode.
- \* Size : 230 x 74 x 38 mm.

## Smart, 1,000 A, economical DCA/ACA CLAMP METER

**Model : CM-6146**

- \* V : Smart ACV/DCV Automatically.
- \*  $\Omega$  : Resistance, Diode, Continuity, Capacitance. Automatically.
- \* 600A : Smart DCA/ACA.
- \* 1000A : Smart DCA/ACA.
- \* Function keys : Select, Zero, Hz, Range, Hold.
- \* CAT III 1000V, CAT IV 600V.
- \* 32 mm measuring conductor size.
- \* Auto power off.



## Vacuum



### VACUUM METER

**Model : VC-9200**

- \* 1125 torr x 1 torr, 1500 mbar x 1 mbar.
- \* Units : torr, mm Hg, micron, KPa, Pa, inch Hg, psi.
- \* RS232, Hold, Record ( Max., Min. ).
- \* Heavy duty vacuum sensor is used for air, oil gas...
- \* Applications : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...



### 200 AMP CURRENT SHUNT

**Model : LS-04**

- \* Optional current shunt for DM-9131.



### DCA/ACA CURRENT ADAPTER

**Model : CA-203 (200 A, 2000 A)**

**Model : CA-502 (200 A, 1000 A)**

- \* DCA Output : 1 DCmV/1 DCA.
- \* ACA Output : 1 ACmV/1 ACA.
- \* CA-203 : 210 x 64 x 33 mm
- \* CA-502 : 185 x 78 x 30 mm



## Engine RPM



### GASOLINE TACHOMETER

**Model : DT-2237A**

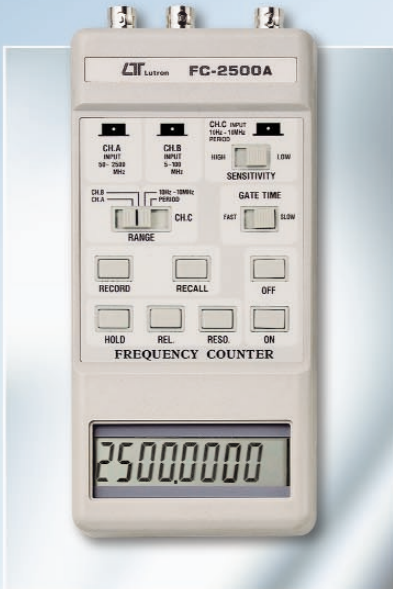
- \* Non-contact engine RPM measuring.
- \* Available the automobile engine, motorcycle engine, generator engine. 4 cycle & 2 cycle select switch, available the automobile engine, motorcycle engine, generator engine...
- \* Secondary tach. measuring method, no matter what cylinder is.
- \* 10 to 40,000 RPM x 1 RPM, 0.05% accuracy.
- \* Memory ( Max., Min., Last value ).
- \* High precision gasoline engine RPM measurement, measurement just clamp the Inductive pick up sensor ( IP-09 included ) to the high tension wire.



### INDUCTIVE PICK UP SENSOR

**Model : IP-09**

- \* Heavy duty type.
- \* DM-9131 optional inductive pick up sensor is used to measure the RPM, only need to clip the high tension wire of no. 1 plug.



## 2.5 GHz FREQUENCY COUNTER

**Model : FC-2500A**

- \* 3 ranges, 2500 MHz, 100 MHz, 10 MHz.
- \* Frequency, Period, Hold, Relative, Max., Min., Average, 8 digits LCD.
- \* High sensitivity for VHF & UHF frequency.
- \* Size : 173 x 80 x 35 mm, Portable type.

## 2.7 GHz FREQUENCY COUNTER, Bench type

**Model : FC-2700**

- \* 3 ranges, 2700 MHz, 100 MHz, 10 MHz.
- \* Frequency, Period, Hold, Relative.
- \* RS232/USB computer interface .
- \* TCXO O.S.C., Max., Min., Average, LCD.
- \* Size : 280 x 210 x 90 mm. Battery power.



## FREQUENCY COUNTER Optional Accessory

**AT-20** : Antenna with BNC connector for FC-2500A only.

**PB-21** : Cable w/ BNC connector & alligators.

**BB-22** : Cable w/double BNC connector.

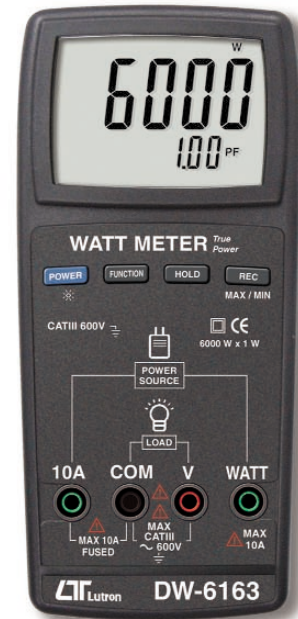
**NN-23** : Direct probe with double N coaxial connector.

**NB-24** : BNC to N coaxial connector adapter.

## 6000 W x 1 W, PF, ACV, ACA, Single phase WATT METER

**Model : DW-6163**

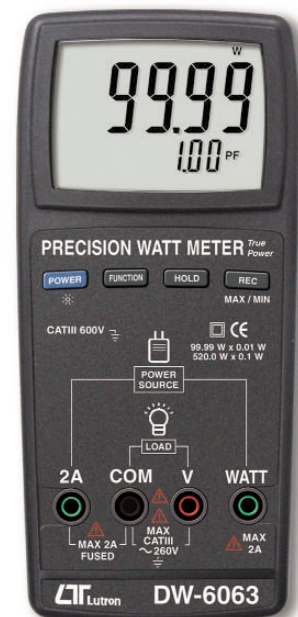
- \* True power measurement.
- \* True rms measurement for ACV, ACA.
- \* Watt : 0 to 6000 W x 1 W
- \* Power factor : 0.01 to 1.00 x 0.01 PF.
- \* ACV : 0 to 600 V X 0.1 V.
- \* ACA : 0 to 10.00 A x 0.01 A.
- \* ACV input impedance : 10 Mega OHM.
- \* Data Hold, Record ( Max., Min. ).
- \* RS232/USB Computer interface.
- \* Optional data acquisition software & USB cable.



## 99.99 x 0.01 W, 520.0 x 0.1 W, PF, ACV, ACA, Single phase PRECISION WATT METER

**Model : DW-6063**

- \* 0.01 W resolution, precision Watt meter is special for low power measurement.
- \* Designed for the high resolution low power measurement.
- \* Watt, Power factor, ACV, ACA.
- \* True power ( watt ) measurement.
- \* True rms measurement for ACV, ACA.
- \* Auto range for Watt measurement :  
Range 1 : 0.00 to 99.99 W x 0.01 W.  
Range 2 : 100.0 to 520.0 W x 0.1 W.
- \* Power factor : 0.01 to 1.00 x 0.01 PF.
- \* ACV : 90.0 to 260.0 V x 0.1 V.
- \* ACA : 0 to 2.000 A x 0.001 A.
- \* ACV input impedance : 10 Mega OHM.
- \* Data Hold, Record ( Max., Min. ).
- \* RS232/USB Computer interface.
- \* Optional data acquisition software, SW-U801-WIN.
- \* Optional Excel data acquisition software, SW-E802.
- \* Optional USB cable, USB-01.







### DCA/ACA CURRENT ADAPTER

**Model : CA-203**

- \* Range : DCA, ACA, 200 A, 2000 A
- \* DCA Output : 1 DCmV/1 DCA.
- \* ACA Output : 1 ACmV/1 ACA.
- \* Size : 210 x 64 x 33 mm



### DCA/ACA CURRENT ADAPTER

**Model : CA-502**

- \* Range : DCA, ACA, 200 A, 1000 A
- \* DCA Output : 1 DCmV/1 DCA.
- \* ACA Output : 1 ACmV/1 ACA.
- \* Size : 185 x 78 x 30 mm



### Mini ACA CURRENT ADAPTER

**Model : CA-201**

- \* 2 ranges : 20 A, 200 A
- \* Output : 1 ACmV per 1 ACA ( 200 A ) .  
10 ACmV per 1 ACA ( 20 A ) .
- \* Size : 180 x 47 x 35 mm.

### DCA/ACA CURRENT ADAPTER

**Model : CA-501** (200A, 400A)

- \* Output : 1 ACmV/1 ACA, 1 DCmV/1 DCA.
- \* CA-501 : 200 x 80 x 30 mm.
- \* CA-202 : 185 x 78 x 30 mm.



### 50A/50mV SHUNT

**Model : ST-50**

- \* Resistance shunt match DMM DC 200 mV range to measure current up to DC/AC 50A precisely.
- \* Output - 1 ACmV/1 ACA, 1 DCmV/1 DCA.
- \* Size : 135 x 30 x 30 mm.



PX-01



PX-02



PI-06

### PROXIMITY SENSOR

**Model : PX-01**

- \* DT-2240D, PDT-2250, TR-RPM1A4 sensor or position detect.
- \* Detectable Object : Metals object.
- \* Detecting distance : 4 mm.
- \* Power : 12-24 DCV, Out-12 DCV 100 mA.

### PROXIMITY SENSOR, mini & round type

**Model : PX-02**

- \* Mini type proximity sensor for DT-2240D, PDT-2250.
- \* Dia. 6.4 mm x 42 mm ( length ).
- \* PNP, normal open. Sn. : 1.5 mm.
- \* Power : 10 to 55 VDC. Output : 150 mA.

### PHOTO SENSOR ( Photo Interrupter )

**Model : PI-06**

- \* Photo interrupter or the photo sensor for DT-2240D, PDT-2250, TR-RPM1A4.
- \* Power supply : DC 12V to 30V.
- \* 3 wires : Power, Signal and Ground.



### HOLSTER

**Model : HS-03**

- \* High quality rubber protective holster.
- \* Available for : DM-9960, DM-9961, LCR-9183, LCR-9184, DW-6063, DW-6163, DW-6064, DM-9950, DM-9962SD, DM-9131, DM-9862.



### HOLSTER

**Model : HS-02**

- \* High quality rubber protective holster.
- \* Available for : EMF-822A, PH-201, CD-4302, TM-914C/F, WA-300, ORP-203, LX-100.

**Model : HS-01**

- \* High quality rubber protective holster. Refer to page 35.

# Adapter SERIES Carrying case



## PRESSURE ADAPTER

### Model : PS-403

- \* 1 mV per kPa, psi, cm-Hg, in-Hg.
- \* Pressure : 0.5 to 500 psi.
- \* Vacuum : 0 to 29.99 in-Hg
- \* Port Connector : 1/4" NPT or 1/4" PS, including one adapter connector that convert the 1/4" NPT to 1/4" PS.
- \* Sensor material : Ceramic.
- \* Weight : 285 g.
- \* Meter Size : 100 x 50 x 25 mm.
- \* Pressure Sensor Size : 70 mm x 30 mm Dia.
- \* Cable length : Approx. 1 meter.
- \* Applications : Measure pneumatic pressures, measure automobile engine vacuum pressures, pressure for super heat measurements, hydraulic servo controls, refrigeration, air conditioning, food processing.



## SOFT CARRYING CASE

### Model : CA-03, CA-06, CA-05A, CA-52A, CA-05B

- CA-03 : Soft carrying case (190 x 90 x 55 mm)
- CA-04 : Soft carrying case (140 x 77 x 40 mm)
- CA-05A : Soft carrying case with sash (260 x 110 x 55 mm)
- CA-52A : Soft carrying case with sash (200 x 80 x 50 mm)
- CA-05B : Soft carrying case with sash (295 x 140 x 55 mm)



## ANEMOMETER ADAPTER

### Model : AM-402

- \* Measurements : m/s, km/h, ft/min, knots.
- \* Output : 1 mV per 1 m/s, per 1 km/h, per 100 ft/min, per 1 knots.
- \* Size : 100x50x25 mm, Sensor-72 mm Dia.



## SOUND ADAPTER

### Model : SL-406

- \* Frequency and time weighting meet IEC 61672 class 2.
- \* A frequency weighting.
- \* Range : 3 ranges, 30 to 130 dB.
- \* Output : 10 mV per 1 dB.
- \* External Calibration adj. VR.



## EMF ADAPTER

### Model : EMF-824

- \* Electromagnetic field radiation adapter.
- \* Ranges : 20 micro Tesla, 200 milli-Gauss.
- \* 1 m Gauss (0.1 u Tesla) per 1 DC mV.
- \* Size : 100x50x25 mm.-main instrument.

CA-05A  
CA-52A  
CA-05B



CA-03

CA-04

CA-06  
CA-08



## HARD CARRYING CASE

- CA-06 : Hard Carrying case. (280 x 195 x 65 mm)
- CA-08 : Hard Carrying case. (370 x 310 x 115 mm)



## LIGHT ADAPTER

### Model : LX-02

- \* 3 ranges, 2,000/20,000/50,000 Lux
- \* Output : 0.1 mV per 1 Lux (range A).  
0.1 mV per 10 Lux (range B).  
0.1 mV per 100 Lux (range C).
- \* Size (main instrument) : 100x50x25 mm.

## HIGH VOLTAGE PROBE

### Model : HV-40

- \* DC : 0 to 40 KV, AC : 28 KV rms.
- \* 1000 M input impedance, 1/1000 att.
- \* DCV :  $\pm 1\%$  (1 to 20 KV),  $\pm 1.5\%$  (>20kV).
- \* ACV :  $\pm 5\%$  (>1 KV, 50/60Hz).
- \* Size : 340 x 30 x 30 mm.





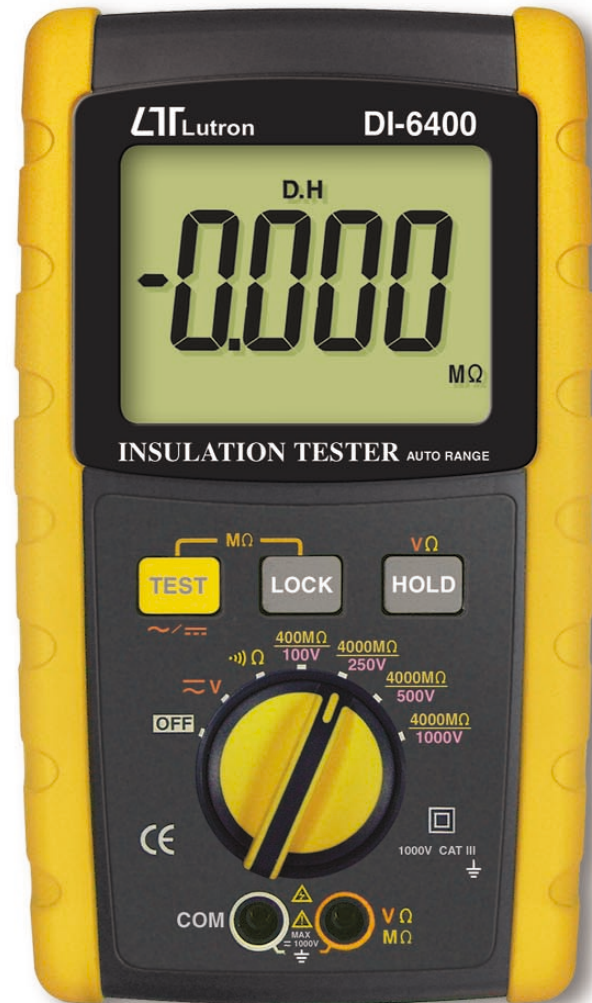
## INSULATION TESTER

### Model : DI-6300

- \* 200 M ohm(100V), 200 M ohm(250V), 200 M ohm(500V), 1000 M ohm(1000V), ACV, 200 ohms, continuity beeper.
- \* Short circuit, 2.8 mA high driving current.
- \* Size : 160 x 120 x 85 mm.

### Model : DI-6300A

- \* Same as DI-6300, but with 2000 M ohm (1000V).
- \* Test lead and alligator clips are included.



## INSULATION TESTER, + DMM

### Model : DI-6400

- \* Auto-range and multi-function.
- \* Insulation measurement ranges:
  1. 4/40/400/4000 M ohm, auto range ( 250 V, 500 V, 1000 V )
  2. 4/40/400 M ohm, auto range ( 100 V )
- \* Built-in the ACV & DCV & OHMS functions : DCV ( 600.0 V ), ACV ( 600.0 V ), OHM ( 400.0 ohm, 4,000 ohm, auto range ).
- \* CAT III 1000V.
- \* Automatic zero adjust & automatic circuit discharge.
- \* Lock & Test functions, safety and easy operation.
- \* Precision resistance measurement with auto-range, useful for measuring low resistance value such as motor windings, relay coils etc.
- \* A continuity beeper is equipped in OHM range.
- \* Jumbo LCD display allows clear read-out.
- \* LSI-circuit provides high reliability and durability.
- \* Built-in over-input and low battery indications.
- \* Battery operating is easy to carry for user.
- \* Overload protection for each range.
- \* Durable & portable housing case with the front rubber protection cover.
- \* Heavy duty test leads with the alligators.
- \* RS-232/USB computer interface.
- \* Powered by UN3/AA DC 1.5 V X 8 batteries.

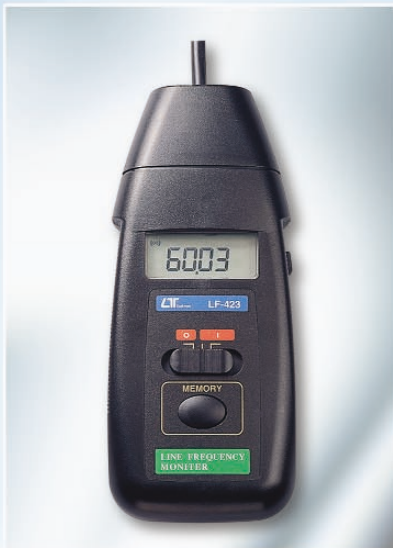
# RCCB SERIES

## 3 Phase Rotation Motor Rotation



### LCD display 3 PHASE ROTATION TESTER Model : RT-616

- \* Large LCD display with backlight, easy to read under the strong light or the dark environment.
- \* Electronic ( not mechanical ) rotation test, high reliability.
- \* 3 phase rotation detector.
- \* Input : 100 - 660 V AC, 45 to 70 Hz.
- \* Custom one-chip of microprocessor circuit.
- \* 3 heavy duty alligator clips are included.
- \* Power supply : DC 9V 006P battery.



### LINE FREQUENCY MONITOR Model : LF-423

- \* 0.5 to 500 Hz ( x 0.01 Hz, < 100 Hz )
- \* Input voltage : 5 to 250 ACV.
- \* Check frequency to DC to AC converter, mobile & portable generator, power line.



### 3 PHASE ROTATION TESTER

Model : RT-606

- \* 3 phase rotation detector.
- \* Input : 100 - 660 V AC, 45 to 70 Hz.
- \* Power supply : None.
- \* Structure : Electronic



### 3 PHASE & MOTOR ROTATION TESTER Model : RT-608

- \* 2 in 1, 3 phase rotation tester & combine with motor rotation tester.
- \* Power supply : DC 9V.
- \* Structure : Electronic (not mechanical).



### RCCB CHECKER

Model : RCB-110V, 100~120 ACV, 50/60 Hz.

Model : RCB-220V, 200~240 ACV, 50/60 Hz.

- \* Checking the power socket pin assignment.
- \* Residual current circuit breaker test.
- \* Rated tripping current setting 10 mA, 30 mA, 100 mA, 300 mA and 500 mA.

### EARTH RESISTANCE TESTER

Model : ET-3000

- \* Earth Resistance : 19.99/199.9/1999 ohm.
- \* Earth voltage : 0 - 199.9 V.
- \* Power supply : 1.5 V UM3 ( AA ) x 6 PCs.
- \* Soft carrying case, CA-3K is included.
- \* Size : 160 x 120 x 85 mm.



# Calibrator SERIES LAN Cable Tester

## V & A Cal.

### VOLTAGE/CURRENT CALIBRATOR

**Model : CC-421**

\* Current source : 0 to 24 mA, 2 ranges.

\* Current measurement :  
0 to 24 mA, 2 ranges.

\* Power ( 12 V ) and current  
measurement of two wire loop :  
0 to 24 mA, 2 ranges.

\* DC mV source :  
-199.9mV to +199.9mV.

\* Size : 185 x 78 x 38 mm.

### CURRENT CALIBRATOR

**Model : CC-422**

\* 0 to 24 mA precision current source.

\* Range :  
0 to 19.99 mA x 0.01 mA.  
0 to 24.0 mA x 0.1 mA.



### CABLE TESTER/CABLE IDENTIFIER

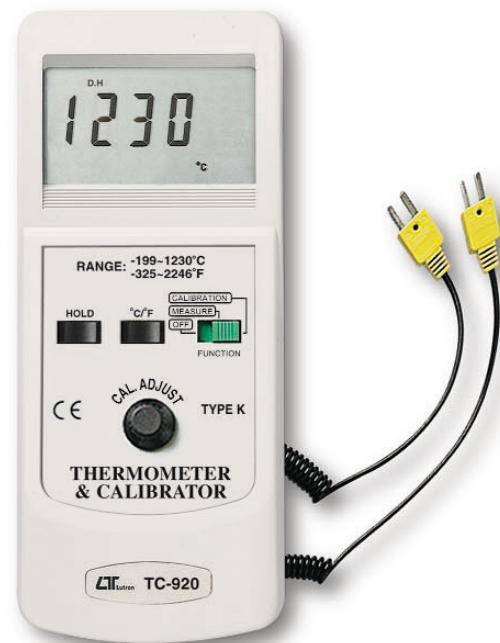
**Model : CB-933**

\* Transmitter & receiver are Included.

\* To identify & trace up to 16 cables.

It can also be connected to heat  
and water supplying installation system.

\* Digital display on the receiver indicates  
the relative cable.



## Temp. Cal.

### THERMOMETER CALIBRATOR

**Model : TC-920**

\* Type k thermocouple calibrator.

\* Type k thermocouple thermometer.

\* -199 °C to 1230 °C, -325°F to 2246°F.

\* Resolution : 0.1 °C ( <1000 °C ).

\* °C /°F, Data hold.

\* Size : 185 x 78 x 38 mm.



### PHOTO/CONTACT TACHOMETER

#### Model : DT-2236

- \* Photo Tach. : 5 to 100,000 RPM
- \* Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- \* Size : 215 x 65 x 38 mm.
- \* Patented.

### PHOTO/CONTACT TACHOMETER, pocket type

#### Model : DT-2230

- \* Mini pocket size, easy carryout.
- \* Photo tach. : 5 to 100,000 RPM
- Contact tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- \* Laser beam for Photo tachometer, long measuring distance.
- \* LCD display, RS-232/USB interface.
- \* Patented.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### PHOTO/CONTACT TACHOMETER

#### Model : DT-2268

- \* Photo tach. : 5 to 100,000 RPM
- Contact tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- \* Large LCD display, 20 mm digit height.
- \* Laser light beam for Photo tachometer.
- \* Patented.



### LASER PHOTO TACHOMETER

#### Model : DT-2234BL

- \* Long detecting distance for photo Tach. up to 2 meters.
- \* Photo Tach. : 10 to 99,999 RPM
- \* Accuracy :  $\pm ( 0.05 \% + 1 d )$ .
- \* Size : 190 x 73 x 37 mm.



### LASER PHOTO/CONTACT TACHOMETER

#### Model : DT-1236L

- \* Patented, the best tachometer in the world.
- \* Long detecting distance for photo Tach. up to 2 meters.
- \* Photo & contact tachometers in one meter.
- \* Fast sampling time for low contact RPM measurement, automatic reverse display.
- \* Photo Tach. : 10 to 99,999 RPM
- Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- \* Size : 215 x 67 x 38 mm, patented.



### PHOTO/CONTACT TACHOMETER

#### Model : DT-2238

- \* Photo Tach. : 5 to 100,000 RPM
- \* Contact Tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min, ft/min.
- \* Size : 195 x 61 x 38.5 mm.
- \* Patented.



**VIBRATION/TACHOMETER, 3 in 1**  
**Model : VT-8204**

- \* Separate professional vibration sensor.
- \* Vibration meter :
  - Acceleration : 200 m/s<sup>2</sup>, RMS, PEAK, Max. Hold, g, ft/s<sup>2</sup>.
  - Velocity : 200 mm/s, RMS, PEAK, Max. Hold, cm/s, inch/s.
  - Displacement (p-p) : 2 mm, Max. Hold, cm, inch.
- \* Tachometer ( photo ) : 10 to 100,000 RPM.
- Tachometer ( contact ) : 5 to 19,999. RPM
- Tach. ( surface speed ) : m/min., ft/min. inch/min.
- \* Laser photo tachometer.
- \* 1000 Data logger point.
- \* Data hold, record ( Max., Min. )
- \* Optional IR probe, IR-962.
- \* RS-232/USB computer interface.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs.
- \* Patented.



**PHOTO TACHOMETER**  
**Model : DT-2234B**  
 \* 5 to 100,000 RPM



**CONTACT TACHOMETER**  
**Model : DT-2235B**  
 \* 0.5 to 19,999 RPM.  
 \* m/min, ft/min, inch/min.



**PHOTO TACHOMETER**  
**Model : DT-2244**  
 \* 5 to 100,000 RPM



**CONTACT TACHOMETER**  
**Model : DT-2245**  
 \* 0.5 to 19,999 RPM.  
 \* m/min, ft/min, inch/min.



**TACHOMETER/STROBOSCOPE**  
**Model : DT-2259**  
 \* Tachometer combines Stroboscope. 2 in 1.  
 \* Photo Tach. : 5 to 99,999 RPM.  
 \* Stroboscope : 100 to 100,000 FPM/RPM.  
 \* 4 x 1.5 V, AA(UM-3) battery power.  
 \* Size : 215 x 65 x 38 mm.

*Digital Synthesis*

**digital synthesis, high intensity light STROBOSCOPE**

**Model : DT-2349**

- \* New generation Stroboscope.
- \* Digital synthesis circuit, high stability and easy adjustment.
- \* Range : 60 to 32,000 RPM.
- \* Adjustment resolution : 0.1 RPM/1 RPM.
- \* High intensity light.
- \* Setting button : digital rotate button, X 2 button, 2 button, + button, - button, easy to adjust the desired RPM.
- \* ACV Power supply : ACV ( 100V to 240V ) to DC 9V ( 3A ) adapter, power adapter is included.
- \* DCV Power supply : Built-in battery compartment, power can use the DC 1.2 V Ni-MH recharge battery ( UM-1, D size ) x 4 PCs which are not included.



*Digital Synthesis*



**digital synthesis, high intensity light STROBOSCOPE**

**Model : DT-2249A ( AC 110V )**

**Model : DT-2249A ( AC 220V )**

**Model : DT-2249A ( AC 230 V )**

- \* New generation Stroboscope.
- \* Digital synthesis circuit, high stability and high adjustment resolution.
- \* Range : 60 to 30,000 RPM.
- \* Adjustment resolution : 0.1 RPM ( 1,000 RPM ), 1 RPM ( 1,000 RPM )
- \* High intensity light.
- \* Setting button : digital rotate button, X 2 button, 2 button, + button, - button, easy to adjust the desired RPM.
- \* Power supply ( ACV only ) : DT-2249A ( AC 110V ) : AC 110V, 50/60 Hz. DT-2249A ( AC 220V ) : AC 220V, 50/60 Hz. DT-2249A ( AC 230V ) : AC 230V, 50/60 Hz.





# Stroboscope

SERIES



**DIGITAL STROBOSCOPE, rotary knob adj.**

**Model : DT-2239A ( AC 110V )**

**Model : DT-2239A ( AC 220V or 230V )**

\* Range : 100 - 10,000 RPM.

\* Accuracy :  $\pm ( 0.05 \% + 1 d )$ .

\* Xenon flash tube, Display : 10 mm red LED.

\* Size : 210 x 120 x 120 mm.



**Digital synthesis, High intensity light, External trigger, Metal housing case, professional and long life**

**DIGITAL STROBOSCOPE XENON**

**Model : DT-2279 ( AC 110V )**

**Model : DT-2279 ( AC 220V or 230V )**

\* New generation Stroboscope, used metal housing case with long life.

\* Digital synthesis circuit, high stability and easy adjustment.

\* Xenon flash tube, high intensity light.

\* Display : 14 mm large red LED.

\* Range : 40 to 35,000 RPM (FPM).

\* External trigger signal input for simultaneous testing and measurement.

1. Phase Shift : 0 to 359° with 1° resolution.

2. Delay Time : 0 to 2,000 mSec from 40 -10,000 RPM.

\* Adjustment resolution : 0.1 RPM ( < 1,000 RPM ), 1 RPM ( <10,000 RPM ), 10 RPM (  $\geq 10,000$  RPM ).

\* Setting button Key : Ext./Int. button, Mode button, digital adjusting button, x 2 button,  $\div$  2 button, + button, - button, easy to adjust the desired RPM.

\* Digital rotary adjustment, easy for making fine adjustment.

\* Power supply ( ACV only ) :

DT-2279 ( AC 110V ), DT-2279( AC 220V ).



**LED array, battery power  
+ photo Tachometer, 2 in 1  
STROBOSCOPE**

**Model : DT-2299**

- \* Stroboscope uses high intensity LED array.
- \* LCD display with backlight.
- \* Stroboscope range : 100 to 99,999 RPM.
- \* External trigger for stroboscope.
- \* Photo tach. range : 10 to 99,999 RPM.
- \* Photo tachometer uses the laser light beam.
- \* Optional contact tach. adapter, TA-35.
- \* Power supply : Batteries, 1.5 V ( UM-1, D ) x 4 PCs.
- \* AC/DC adapter is optional.



**battery power, LED array  
STROBOSCOPE**

**Model : DT-2199**

- \* Stroboscope uses high intensity LED array.
- \* LCD display with backlight.
- \* Stroboscope range : 100 to 99,999 RPM.
- \* Power supply : Batteries, 1.5 V ( UM-1, D ) x 4 PCs.
- \* AC/DC adapter is optional.



**SD Card real time data logger**  
**12 channels TEMPERATURE RECORDER**  
**Model : BTM-4208SD**

- \* 12 channels Temperature recorder, use SD card to save the data along with time information, paperless.
- \* Real time data logger, save the measuring data along the time information into the SD memory card and can be downloaded to the Excel, extra software is no need.
- \* Channels no. : 12 channels ( CH1 to CH12 )
- \* Type J/K/T/E/R/S thermocouple.
- \* Auto datalogger or manual datalogger.
- \* Logger sampling time range : 1 to 3600 sec..
- \* Memory card : 1 GB to 16 GB.
- \* RS232/USB computer interface.

**PT 100 ohm TEMPERATURE PROBE**  
**Model : TP-100**

- \* The exclusive Pt 100 ohm precision Temp. probe for TM-907A, TM-917, TM-9017SD, TM-9027SD, TM-917HA, TM-936.
- \* Sensor type : Pt 100 ohm.
- \* Range : -50 to 400 °C.



**TYPE K TEMPERATURE PROBE**

- TP-01** : -40 to 250 °C, Naked-bead.
- TP-02A** : -50 to 900 °C, 3.2 mm Dia. x 12 cm.
- TP-03** : -40 to 1050 °C, 8 mm Dia. x 13.6 cm.
- TP-04** : -50 to 400 °C, Surface probe.

Temp. probe (optional)

Probe 1  
Probe 2

to Probe 12



**THERMOMETER, 2 in 1**  
**Model : TM-936**

- \* Type K/J/E/T :  
 -100 to 1300 °C, max. 0.1 °C/0.1 °F.
- \* Type R : 0 to 1700 °C, 1 °C/ 1 °F.
- \* PT 100 ohm :  
 -200 to 800 °C, max. 0.1 °C/0.1 °F.
- \* RS-232/USB, Hold, Record ( Max., Min. ).



**DUAL THERMOMETER, RS-232**  
**Model : TM-906A**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Range : -50 to 1230 °C.
- \* Max., Min., Memory recall button.
- \* °C/°F, 0.1°/1°, T1, T2, T1-T2.
- \* Size : 180 x 72 x 32 mm. RS-232/USB.



**2 channels, T1, T2, T1-T2**  
**DUAL CHANNEL THERMOMETER**  
**Model : TM-934S**

- \* Type K : -199.9 to 1370.0 °C.
- \* Display functions : T1 & T2 , T1-T2 , T1 only.
- \* Data hold , Record ( max., min. ).
- \* Microprocessor circuit.
- \* Size : 131 x 70 x 25 mm.
- \* DC 9V battery ( 006 P ).
- \* Optional full line type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.

**Thermometer**  
 SERIES



**PRECISION 0.01 degree THERMOMETER**  
**Model : TM-917**

- \* Pt 100 ohm: -199.99 °C to 850 °C, + Type J/K/R/E/T
- \* 0.01/0.1 degree, Memory, °C/°F, RS-232/USB.

**PRECISION 0.01 degree THERMOMETER**  
**Model : TM-907A**

- \* Pt 100 ohm : -199.99 °C to 850 °C, high accuracy.

**PT 100 ohm TEMP. PROBE**  
**Model : TP-100**



**DUAL THERMOMETER**  
**Model : TM-916**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Range : -50 to 1230 °C.
- \* Max., Min., Memory recall button.
- \* °C/°F, 0.1°/1°, T1, T2, T1-T2.
- \* Size : 180 x 72 x 32 mm.



**DUAL CHANNEL THERMOMETER**  
**Model : TM-914C**

- \* -40 to 1200 °C (TM-914C)
- \* Type K, dual channel, pocket size.
- \* Size : 131 x 70 x 25 mm.



### 4 channels THERMOMETER

#### Model : TM-946

- \* Type K/J, Pt 100 ohm, shows 4 display values.
- \* 4 channels ( T1, T2, T3, T4 ), T1-T2, °C/°F.
- \* Display 4 channels Temp. at the same time.
- \* Type K : -100 to 1300 °C,  
Type J : -100 to 1200 °C.
- \* Pt 100 ohm : -199 to 850 °C.
- \* °C/°F, 0.1 degree/1 degree.
- \* Data hold, Record ( max., min. ).
- \* RS-232/USB computer interface.
- \* Optional Type K Temp. probe, refer page 47.
- \* Optional Pt-100 ohm Temp. probe, TP-101.
- \* DC 1.5V ( UM-4, AAA ) battery x 6 or DC 9V adapter in.



### Separate probe, type K THERMOMETER

#### Model : PTM-806

- \* Cooperate with the type K Temp. probe.
- \* Range : -100 to 1300 °C x 0.1 °C.
- \* Units : °C, °F. internal adjustment.
- \* Separate probe, easy for remoting measurement.
- \* Temp. probe, TP-01 is included.
- \* Optional temp. probes : TP-02A, TP-03, TP-04.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

### SD Card real time data recorder

#### 4 channels THERMOMETER

#### Model : TM-947SD

- \* Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- \* Type K/J/R/S/E/T, Pt 100 ohm, 4 display values.
- \* 4 channels ( T1, T2, T3, T4 ), T1-T2, °C/°F.
- \* Display 4 channels Temp. at the same time.
- \* Type K : -100 to 1300 °C,  
Type J : -100 to 1150 °C.
- \* Pt 100 ohm : -199 to 850 °C.
- \* °C/°F, 0.1 degree/1 degree.
- \* Data hold, Record ( max., min. ).
- \* RS232/USB computer interface.
- \* Optional type K Temp. probe :  
TP-01, TP-02A, TP-03, TP-04, TP-05.
- \* Optional Pt-100 ohm Temp. probe, TP-101.
- \* Patented.



Optional  
Temp. probe



### THERMOMETER, all in 1

#### Model : PTM-816

- \* Cooperate with the type K Temp. probe.
- \* Range : -40 to 230 °C x 0.1 °C.
- \* Units : °C, °F. internal adjustment.
- \* Meter with the probe, all in 1, easy operation.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* IP-67 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

### T1, T2, T1-T2, two displays TWO CHANNEL THERMOMETER

#### Model : TM-925

- \* T1, T2, T1-T2, Type K/J.
- \* °C/°F, 0.1 degree/1 degree.
- \* Type K : -100 to 1300 °C.
- \* Type J : -100 to 1200 °C.
- \* Data hold, Record ( max., min. ).
- \* 1600 Data logger point.
- \* RS-232/USB interface, data logger.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



# IR Thermometer

SERIES



**+ type K THERMOMETER, 2 in 1  
INFRARED THERMOMETER**  
**Model : TM-909AL**

- \* Non-contact temperature measurement.
- \* With red Laser target light guide.
- \* °C/°F, Max., Min., Rel., Data hold.
- \* IR : -20 °C to 400 °C , 0.1 ° resolution.
- \* Type K thermometer : -50 °C to 1230 °C.
- \* Gun type, heavy duty, emissivity value adjust.



**INFRARED THERMOMETER**  
**Model : TM-919AL**

- \* Non-contact temperature measurement.
- \* With red Laser target light guide.
- \* °C/°F, Max., Min., Rel., Data hold.
- \* Range : -20 °C to 400 °C , 0.1 ° resolution.
- \* Gun type, heavy duty, emissivity value adjust.



**650°C + type K/J/R/E/T**

**High Temp. IR THERMOMETER + type K/J/R/E/T**  
**Model : TM-939**

- \* IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- \* IR emissivity is adjustable from 0.20 to 1.00.
- \* IR with Laser target guide, RS-232/USB.
- \* Thermocouple inputs : type K/J/R/E/T.
- \* Type K : -100 to 1300 °C, 0.1 °C/0.1 °F.
- \* Size : 220 x 68 x 30 mm.



**650°C**

**High Temp. IR THERMOMETER, wide range**  
**Model : TM-949**

- \* IR Range : -20 to 650 °C (-4 to 1202 °F), °C/ °F.
- \* IR emissivity is adjustable from 0.20 to 1.00.
- \* IR with Laser target guide.
- \* RS-232/USB computer interface.
- \* Size : 220 x 68 x 30 mm.

**Precision, 0.1 degree resolution**  
**Safety red LED light guide**  
**2 in 1, + type K thermometer**  
**FOREHEAD IR THERMOMETER**  
**Model : FT-967**

- \* Non-contact temperature measurement, 34.0 °C to 43.0 °C ( 93.2 °F to 109.4 °F ) precision for forehead non-contacted temperature measurement.
- \* 0.1 degree resolution, high precision, exclusive design for the human forehead temperature measurement.
- \* Useful instrument to find the abnormal ( extra higher ) human body temperature in the crowd quickly.
- \* LCD display with backlight.
- \* High repeatability with 0.5 °C.
- \* With red LED light guide, safety.
- \* Automatic data hold function to freeze the display reading.



# IR Thermometer

SERIES



## **economical type, LED target light INFRARED THERMOMETER**

**Model : TM-956**

- \* Range : -30 °C to 305 °C .
- \* Mini pocket type.
- \* 0.95 emissivity value.
- \* High intensity LED target light, safety.
- \* 0.5 degree display resolution.
- \* °C, °F internal select with default.
- \* Automatic display hold.
- \* DC 9V battery ( 006P ).



## **Dual laser targeting + type K thermometer 1,000 °C INFRARED THERMOMETER**

**Model : TM-969**

- \* 1,000 °C no contact infrared Temp. measurement.
- \* 1400 °C type K thermometer.
- \* Dual laser for better targeting.
- \* Large LCD display with backlight.
- \* D/S ratio value : 50/1.
- \* Min., Max., Differential, Average, Lock mode.
- \* Last measurement memory.
- \* Hi/Lo Temperature Audio Alarm.
- \* Adjustable emissivity value is from 0.1 to 1.00.
- \* Power supply : DC 1.5V battery ( UM 4/AAA ) x 2 PCs .
- \* Dimension : 203 x 197 x 47 mm



## **LED target light, Emissivity adj. INFRARED THERMOMETER**

**Model : TM-959**

- \* Range : -30 °C to 305 °C .
- \* Mini pocket type.
- \* High intensity LED target light, safety.
- \* Emissivity adjustment, 0.20 to 1.00.
- \* 0.5 degree display resolution.
- \* °C, °F internal select with default.
- \* Automatic display hold.
- \* DC 9V battery ( 006P ).



## **Laser target light, Emissivity adj. INFRARED THERMOMETER**

**Model : TM-958**

- \* Range : -30 °C to 305 °C .
- \* Mini pocket type.
- \* Laser target light.
- \* Emissivity adjustment, 0.20 to 1.00.
- \* 0.5 degree display resolution.
- \* °C, °F internal select with default.
- \* Automatic display hold.
- \* DC 9V battery ( 006P ).



### LIGHT METER

**Model : LX-1102**

- \* Large LCD with bar graph, Fc & Lux select.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* Zero adjust, bar graph LCD.
- \* RS-232/USB, Hold, Record.



### LIGHT METER, 4 light type

**Model : LX-1108**

- \* Large LCD display with bar graph display.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Lux, Foot-candle unit selection.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* RS-232/USB, Hold, Record, Zero adjust.
- \* 4 light type selection, bar graph LCD.



### LIGHT METER

**Model : YK-10LX**

- \* Large LCD display, 21.5 mm digit height.
- \* 2,000 Lux, 20,000 Lux.
- \* Sensor meets C.I.E. photopic spectrum.
- \* 2 filters, professional.
- \* Hold, External zero adjust.



### LIGHT METER, RS232

**Model : LX-105**

- \*  $\mu$ -P circuit, 2,000/20,000/50,000 Lux.
- \* Max., Min., Memory recall button.
- \* Lux, Ft-candle, % values, wide range.
- \* 4 light type select by push button.
- \* RS-232/USB computer interface.
- \* Size : 180 x 72 x 32 mm.



### LIGHT METER

**Model : LX-107**

- \*  $\mu$ -P circuit, 2,000/20,000/100,000 Lux.
- \* Max., Min., Memory recall button.
- \* Lux, Ft-candle, wide range.
- \* 4 light type select by push button.
- \* Size : 180 x 72 x 32 mm.



### LIGHT METER, pocket

**Model : LX-100**

2,000/20,000 Lux.

**Model : LX-100F**

200.0/2,000 Foot-candle.

**Model : LX-101AS**

2,000/20,000/50,000 Lux.



### Auto range,

### LIGHT METER

**Model : LX-113S**

- \* 2,000/20,000/50,000 Lux , Auto range.
- \* Lux & Ft-candle unit select.
- \* Sensor with color correction, 2 filters.
- \* Sensor spectrum meets C.I.E.
- \* Zero key function.
- \* Separate light probe, easy operation
- \* Microprocessor circuit.
- \* Size : 131 x 70 x 25 mm.
- \* DC 9V battery ( 006 P ).



### LIGHT METER, analog output

**Model : LX-102**

- \* 2,000/20,000/50,000 Lux, Foot-candle.
- \* 2 filters, spectrum meets C.I.E.

**Model : LX-108**

- \* 200/2,000/20,000 Lux, Foot-candle.
- \* 2 filters, spectrum meets C.I.E.



### LIGHT METER, pocket

**Model : LX-101**

- \* 2,000/20,000/50,000 Lux, Zero adj.
- \* 2 filters, spectrum meets C.I.E.

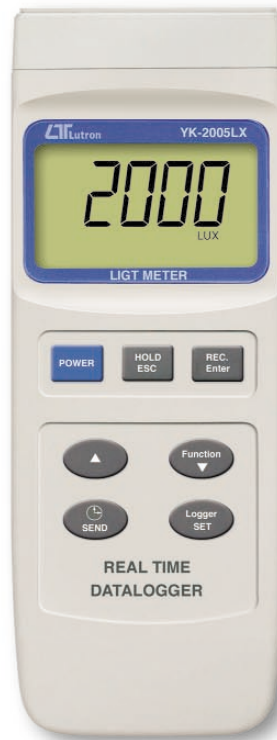




### LIGHT METER

#### Model : LM-81LX

- \* 2,000 Lux, 20,000 Lux, auto range.
- \* 200 Ft-cd, 2,000 Ft-cd, auto range.
- \* Lux/Ft-cd unit select, zero adjust.
- \* Data hold, Record ( Max., Min. ).
- \* Tiny bone shape with light weight and small size.



### LIGHT METER, Real time data logger

#### Model : YK-2005LX

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Ranges : 200/2,000/20,000/100,000 Lux.
- \* Units : Lux, Feet-candle.
- \* 4 light type selection.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* Max., Min., Data hold, zero adjust.
- \* RS-232/USB computer interface.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



### 4 light type, bar graph display, wide range

#### LIGHT METER

#### Model : LX-1118

- \* Large LCD display with bar graph.
- \* 40.00/400.0/4,000/40,000/400,000 Lux.
- \* Lux or Feet-candle unit selection.
- \* 4 light type select.
- \* Sensor meets C.I.E. spectrum, 2 filters.
- \* Data hold, Record ( max., min. ).
- \* RS-232/USB computer interface.
- \* DC 1.5V battery ( UM-4, AAA ) x 6.

### LIGHT METER

#### Model : PLX-111

- \* 0 to 20,000 Lux, 0 to 1,860 Ft-cd.
- \* Units : Lux, Ft-cd.
- \* Auto range.
- \* Pen type, all in one, easy carryout.
- \* Hold function to freeze display value.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.







### UVA LIGHT METER, RS-32

**Model : UVA-365A**

- \* UVA Ultra-Violet radiometer.
- \* 3 ranges :
  - 199.9  $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$ .
  - 1.999  $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$ .
  - 19.99  $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$ .
- \* Data Hold.
- \* RS232/USB computer interface.
- \* Max., Min., Memory recall button.
- \* Size : 180 x 72 x 32 mm.



### UVC LIGHT METER, RS232

**Model : UVC-254A**

- \* UVC Ultra-Violet radiometer.
- \* 3 ranges :
  - 199.9  $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$ .
  - 1.999  $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$ .
  - 19.99  $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$ .
- \* Data Hold.
- \* RS232/USB computer interface.
- \* Max., Min., Memory recall button.
- \* Size : 180 x 72 x 32 mm.



### UV LIGHT METER, pocket

**Model : UV-340A**

- \* Spectrum : 290 nm -390 nm.
- \* Applications : UVA & UVB measurements.
- \* 2 ranges :
  - 1999  $\mu\text{W}/\text{cm}^2 \times 1 \mu\text{W}/\text{cm}^2$ .
  - 19990  $\mu\text{W}/\text{cm}^2 \times 10 \mu\text{W}/\text{cm}^2$ .
- \* Pocket size.
- \* Microprocessor circuit.
- \* Separate probe, easy operation.



### UV LIGHT METER

**Model : YK-35UV**

- \* Spectrum : 290 nm -390 nm
- \* Applications : UVA & UVB measurements.
- \* 2 ranges :
  - 2  $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$ .
  - 20  $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$ .
- \* Data hold.
- \* RS232/USB computer interface.
- \* Max., Min., memory recall button.
- \* Separate probe, easy operation.

# Anemometer Vane Type SERIES



## ANEMOMETER, metal vane + air flow

**Model : AM-4206M**

- \* CMM ( m<sup>3</sup>/min. ), CFM ( ft<sup>3</sup>/min. )
- \* m/s, ft/min, km/h, knots, mph, Temp.(°C/°F).
- \* Range : 0.4 to 35 m/s.
- \* Metal vane, heavy duty anemometer probe.
- \* RS-232/USB, Hold, Record ( Max., Min. ).



## ANEMOMETER

**Model : LM-81AM**

- \* Anemometer : 0.4 to 30.0 m/s.
- \* m/s, km/h, MPH, knots, ft/min.
- \* Data hold, Record ( Max., Min. )
- \* Tiny bone shape with light weight and small size.

**Model : LM-81AT**

- \* Same as LM-81AM but with Temp. measurement.



## ANEMOMETER

**Model : AM-4203**

- \*  $\mu$ -P circuit, 0.4 to 25.0 m/s.
- \* Max., Min., Memory recall button.
- \* m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- \* Size : 180 x 72 x 32 mm. RS-232/USB.



## ANEMOMETER, air flow + air velocity

**Model : AM-4206**

- \* CMM ( m<sup>3</sup>/min. ), CFM ( ft<sup>3</sup>/min. )
- \* m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- \* 0.4 to 25.0 m/s.,  $\mu$ -P circuit.
- \* Max., Min., Memory recall button.
- \* Size : 180 x 72 x 32 mm. RS-232/USB.



## ANEMOMETER (w/ Temp.)

**Model : AM-4202**

- \* 0.4 to 30.0 m/s, m/s, ft/min, km/h, knots, Temperature, Data hold, 18 mm LCD.
- \* Low-friction ball-bearing vane.

## ANEMOMETER (w/o Temp.)

**Model : AM-4201**



## ANEMOMETER

**Model : YK-80AP, refer page 2.**

- \* m/s, ft/min, km/h, knots, mile/h.
- \* Temperature : °C/°F.
- \* RS-232/USB, Hold, Record ( Max., Min. ).

**Model : YK-80AM, metal vane, refer page 2.**



## ANEMOMETER

**Model : AM-4203HA**

- \*  $\mu$ -P circuit, 0.4 to 25.0 m/s.
- \* m/s, ft/min, km/h, mile/h, knots, Temp. (°C/°F).
- \* Max., Min., Memory recall button.
- \* Size : 185 x 78 x 38 mm.

# Anemometer Vane Type SERIES



## Real time data logger + air flow ANEMOMETER

### Model : YK-2005AM

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Air velocity, Air flow, Temp., type K Temp.
- \* Metal vane, heavy duty.
- \* 0.4 to 30.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS-232/USB computer interface.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



## ANEMOMETER

### Model : MY-81AP

- \* Range : 0.4 to 25.0 m/s.
- \* m/s, km/h, ft/min., knots, mile/h, Temp.
- \* Temp. : 0 to 50 °C, °C/°F.
- \* Low-friction ball vane wheels is accurate in both high & low velocity.
- \* LCD shows both air velocity and Temp. value.
- \* Remote vane probe is separate, easy operation.
- \* RS-232/USB computer interface.
- \* Data hold, Record ( Max., Min. ).
- \* DC 1.5V ( UM-4, AAA ) battery x 6.

## VANE ANEMOMETER/BAROMETER/HUMIDITY/TEMP.

### Model : ABH-4225

- \* Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Vane probe, high reliability.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## VANE ANEMOMETER/HUMIDITY/TEMPERATURE

### Model : AH-4223

- \* Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Vane probe for anemometer.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

## + Temperature

## VAN ANEMOMETER

### Model : AM-4222

- \* Air velocity : 0.4 to 30.0 m/s
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Units : m/s, km/h, knots, ft/min, mile/h.
- \* Temp. : 0 to 50 °C, °C/°F.
- \* All in one, compact and handheld type.
- \* LCD display, Data hold.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



# Anemometer Cup Type SERIES



## + Temperature CUP ANEMOMETER Model : AM-4221

- \* Outside air speed measurement.
- \* 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Cup type probe, high reliability.
- \* LCD display, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## CUP ANEMOMETER Model : AM-4220

- \* Outside air speed measurement.
- \* 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* All in one, hand held type.
- \* Cup type probe, high reliability.
- \* LCD display, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP. Model : ABH-4224

- \* Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Cup type probe, no wind direction.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

# Anemometer Hot Wire SERIES



**Real time data logger, + air flow, + type K/J  
HOT WIRE ANEMOMETER**

**Model : YK-2005AH**

- \* High capacity, 16,000 data logger point.
- \* Real time data logger ( record year, month, date, hour, minute, second ).
- \* Air velocity, Air flow, Temp., type K/J Temp..
- \* Hot wire anemometer, high precision for low air velocity measurement.
- Telescope probe.
- \* 0.2 to 20.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS-232/USB computer interface.
- \* Jumbo LCD display.
- \* DC 1.5V ( UM3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



**HOT WIRE ANEMOMETER, air flow**

**Model : YK-2004AH**

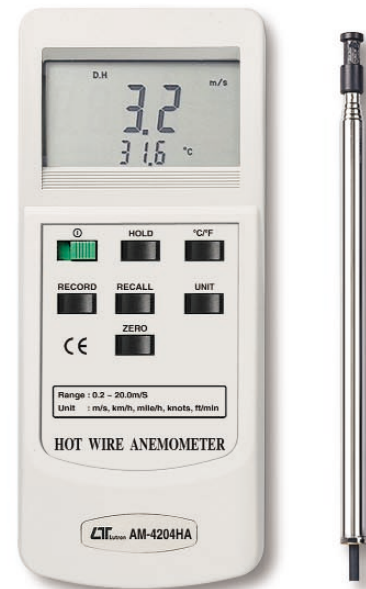
- \* Air velocity, Air flow ( CMM, CFM ), Temperature.
- \* Hot wire anemometer, high precision for low air velocity measurement.
- \* Telescope and separate probe, easy operation.
- \* 0.2 to 20.0 m/s. CMM, CFM.
- \* Max., Min., Data hold.
- \* RS-232/USB computer interface.
- \* Jumbo LCD, unit with dot matrix display.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs or DC 9V adapter in.
- \* Size : 203 x 76 x 38 mm.



**HOT WIRE ANEMOMETER**

**Model : AM-4204**

- \* 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- \* m/s, ft/min, km/h, knots, mile/h, °C/°F.
- \* Max., Min., Data hold.
- \* RS-232/USB computer interface.
- \* Size : 180 x 72 x 32 mm. Telescope probe.



**HOT WIRE ANEMOMETER**

**Model : AM-4204HA**

- \* 0.2 - 20.0 m/s, high precision for low air velocity measurement.
- \* m/s, ft/min, km/h, knots, mile/h, °C/°F.
- \* Max., Min., Data hold.
- \* Size : 185 x 78 x 38 mm. Telescope probe.

# Humidity Dew Point



## HUMIDITY/TEMP. METER, all in 1, RS232 Model : HT-306

- \* Measurements : Humidity, Temp., Dew point
- \* Humidity : 10 to 95 %RH, Temp. : 0 to 50 °C.
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* Fast response time.
- \* Data hold, Record ( max., min. ).
- \* Meter is built-in probe, all in one, easy operation.
- \* RS-232/USB computer interface.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



## + type K/J Temp. HUMIDITY/ANEMOMETER METER Model : AM-4205A

- \* Anemometer : 0.4 to 25.0 m/s. m/s, ft/min., km/h, mile/h, knots, Temp.
- \* Humidity meter %RH : 10 to 95 %RH. Humidity/Temp. : 0 to 50 °C, °C/°F.
- \* Type K thermometer : -199.9 to 1300 °C, °C/°F.
- \* Type J thermometer : -199.9 to 1100 °C, °C/°F.
- \* Max., Min., data hold, RS-232/USB interface.



## POCKET HUMIDITY METER, economical type Model : HT-305

- \* Measurements : Humidity, Temp., Dew point
- \* Pocket and compact housing case.
- \* Fast response time.
- \* Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C.
- \* Resolution : 0.1 %RH, 0.1 degree.
- \* DC 9V battery ( 006P ) .
- \* Separate probe.
- \* Size : 135 x 60 x 33 mm.



## 80 °C, wide temperature, RS232 POCKET HUMIDITY METER Model : HT-315

- \* Measurements : Humidity, Temp., Dew point.
- \* Pocket and compact housing case.
- \* Fast response time.
- \* Humidity : 10 to 95 %RH , Temp. : 0 to 80 °C.
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* Data logger with 1000 reading value.
- \* DC 9V battery or AC/DC adapter power in.
- \* RS-232/USB, separate probe.



## HUMIDITY METER, Dew point, Temp., RS232 Model : HT-3015

- \* Measurements : Humidity, Temp., Dew point
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* 1000 data logger, RS-232/USB interface.
- \* Fast response time.
- \* Separate probe.
- \* LCD display, 006P DC 9 V battery.
- \* Size : 180 x 72 x 32 mm.



## HUMIDITY/TEMP. METER, + type K/J Temp. Model : HT-3006A

- \* Humidity meter/%RH : 10 to 95 %RH.
- \* Humidity meter/Temp. : 0 to 50.0 °C, °C/°F.
- \* Type K Thermometer : -199.9 °C to 1300 °C.
- \* Type J Thermometer : -199.9 °C to 1100 °C.
- \* Max., Min., data hold, RS-232/USB interface.
- \* Type K Temp. probes ( optional ) : TP-01, TP-02A, TP-03, TP-04, TP-05.



## HUMIDITY METER, Dew point, Temp. Model : HT-3015HA

- \* Max., Min., Memory recall button.
- \* 10% - 95% RH, 0 - 50.0 °C, °C/°F.
- \* Measurements : Humidity, Temp., Dew point
- \* Resolution : 0.01 %RH, 0.01 degree.
- \* Fast response time, Separate probe.
- \* LCD display, 006P DC 9 V battery.
- \* Size : 185 x 78 x 38 mm.



## HUMIDITY/TEMP. METER, + type K/J Temp. Model : HT-3006HA

- \* Humidity meter/RH : 10% - 95% RH.
- \* Humidity meter/Temp. : 0 - 50.0 °C, °C/°F.
- \* Type K Thermometer : -199.9 °C to 1300 °C.
- \* Type J Thermometer : -199.9 °C to 1100 °C.
- \* Temp. probes ( optional ) : TP-01, TP-02A, TP-03, TP-04, TP-05.



### HUMIDITY METER, data logger, RS232

**Model : YK-90HT**

- \* Humidity, Temp., Dew point.
- \* Humidity range : 10 % to 95 % R.H.
- \* Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- \* 0.01 %RH, 0.01 degree.
- \* 1000 data logger point.
- \* Optional data transmission software, SW-DL2005.
- \* RS-232/USB computer interface.

### HUMIDITY METER, +Dew Point + Type K

**Model : HD-3008**



### HUMIDITY METER

**Model : MY-91HT**

- \* Measurements : Humidity, Temp., Dew point.
- \* Humidity range : 10 % to 95 % R.H.
- \* Temp. range : 0 °C to 50 °C, 32 °F to 122 °F.
- \* Resolution : 0.01% RH, 0.01 degree.
- \* 1000 data logger point.
- \* Fast response time, 1,000 point data logger.
- \* RS-232/USB, Data hold, Record ( Max., Min. ).
- \* DC 1.5V ( UM-4, AAA ) battery x 6.



### HUMIDITY/TEMP. METER

**Model : PHT-316**

- \* Humidity : 10% to 95% RH.
- \* Temperature : 0 to 50 °C.
- \* Temp. unit : °C, °F. internal adjustment.
- \* Humidity measurement with fast response time
- \* All in one, pen type, easy carryout.
- \* Hold function to freeze display value.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### HUMIDITY/BAROMETER/TEMP. METER

**Model : PHB-318**

- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, pen type, easy carryout.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### 3 in 1

### HUMIDITY/TEMP. METER

**Model : SP-82RH**

- \* Multi-functions, mini pocket size, 3 in 1 :  
1. Humidity/Temp., 2. Dew point, 3. Wet bulb.
- \* Humidity: 10 to 95 %RH.
- \* Temperature. : 0 to 50 °C, °C/°F.
- \* Dew point : -25.3 to 49.0 °C, °C/°F.
- \* Size : 120 mm x 45 mm x 20 mm.
- \* Battery and carrying case are included.



### HUMIDITY METER

**Model : LM-81HT**

- \* Humidity : 10 to 95 %RH.
- \* Temperature : 0-50.0 °C, °C/°F.
- \* Tiny bone shape with light weight and small size.



### VANE ANEMOMETER/BAROMETER/ HUMIDITY/TEMP.

#### Model : ABH-4225

- \* Air velocity : 0.4 to 30.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Vane probe, high reliability.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### CUP ANEMOMETER/BAROMETER/HUMIDITY/TEMP.

#### Model : ABH-4224

- \* Air velocity : 0.9 to 35.0 m/s, ft/min., km/h, mile/h, knots.
- \* Barometer : 10 to 1100 hPa, mmHg, inHg.
- \* Humidity : 10% to 95% RH, Dew.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* All in one, hand held type.
- \* Cup type probe, no wind direction.
- \* Hold, Record ( max., min. ).
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



# Sound Level Meter

SERIES



## SOUND LEVEL METER, economical type

### Model : SL-4010

- \* Frequency & time weighting meet IEC 61672 class 2.
- \* 35 to 130 dB, 3 ranges, Data hold.
- \* A frequency weighting, Fast time weighting.
- \* Size : 250 x 83 x 32 mm.

## SOUND LEVEL METER

### Model : SL-4001

- \* Frequency & time weighting meet IEC 61672 class 2.
- \* A, C weighting, Max. hold, Data hold, fast/slow time weighting, AC/DC output.
- \* Range : 3 ranges, 30 to 130 dB.
- \* Size : 245 x 80 x 35 mm.



## SOUND LEVEL METER, type 1

### Model : SL-4022

- \* Frequency & time weighting meet IEC 61672 class 1.
- \* 30 to 130 dB, 3 ranges, Max. hold, Data hold.
- \* A/C frequency weighting, F/S time weighting.
- \* AC output, Internal 94 dB calibration.
- \* Professional sound level meter.
- \* Size : 260 x 87 x 36 mm.

## SOUND LEVEL METER

### Model : SL-4011

- \* Frequency & time weighting meet IEC 61672 class 2.
- \* A, C weighting, Max., Data hold, fast/slow time weighting.
- \* AC/DC output, Max. Hold.
- \* Reset button for Max. hold.
- \* Range : 3 ranges, 30 to 130 dB.
- \* Size : 250 x 83 x 32 mm.



## WIND SHIELD BALL

### Model : SB-01

- \* Available for all Sound Level Meter.



## SOUND LEVEL METER, Auto Range & RS-232

### Model : SL-4012

- \* 30 - 130 dB, Auto range, Manual range.
- \* Frequency & time weighting, IEC 61672 class 2.
- \* A & C frequency weighting.
- \* Fast / Slow time weighting, Data hold.
- \* Peak hold, Memory (max., min.).
- \* AC output & RS-232/USB computer interface.
- \* Size : 268 x 68 x 29 mm.

## Auto Range RS-232



## SOUND LEVEL METER, separate probe

### Model : SL-4013

- \* 30 to 130 dB, Auto range.
- \* RS-232/USB computer interface.
- \* 180° rotary sensor shelf.
- \* Separate probe optimum for remote measurement and low noise environment test.



## SOUND CALIBRATOR, 94 dB

### Model : SC-941

- \* Professional, 1 KHz.
- \* Die casting aluminum alloy housing case.
- \* DC 9V batteries x 2 PCs.
- \* Size : round 50 mm Dia. x 82 mm.

## SOUND CALIBRATOR, 94 dB & 114 dB

### Model : SC-942

## Sound Level Meter Ultrasonic Leakage Ultrasonic Detector



### SOUND LEVEL METER, *pocket type*

**Model : SL-4030**

- \* Main specification meets IEC 61672 class 2.
- \* A, C weighting, Max. hold, fast/slow time weighting, AC/DC output.
- \* Range : 3 ranges, 30 to 130 dB.
- \* Mini pocket size.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



### ULTRASONIC LEAKAGE DETECTOR

**Model : GS-5800**

- \* Applications :  
Air leaks around door & window gaskets & seals, Conduit & pipe identifications, Windshield leaks...
- \* Bar LED to show the leakage level.
- \* Size : 255 x 70 x 28 mm.

### ULTRASONIC TRANSMITTER

**Model : GS-400**

- \* Frequency output : 40 KHz.
- \* Crystal time base, 9V battery power.
- \* Size : 146 x 50 x 26 mm
- \* Work with the GS-5800.



EM-910P ( for SL-4112P )

### SOUND LEVEL METER *auto range + Type K/J Thermometer.* *optional Humidity, Light, Anemometer*

**Model : SL-4112P ( with EM-910P )**

- \* 30-130 dB, auto range, manual range.
- \* Frequency and time weighting meet IEC 61672 class 2.
- \* A or C frequency weighting.
- \* Fast/Slow time weighting, peak hold.
- \* Data hold, Record ( max., min. ).
- \* AC output, RS232/USB interface.
- \* Data logger.
- \* Optional data transmission software, SW-E2005, SW-DL2005.
- \* Type K Temp. : -100 to 1300 °C, °C/°F.
- \* Type J Temp. : -100 to 1100 °C, °C/°F.

- \* Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- \* DC 1.5V battery ( UM-4/AAA ) x 6 or DC 9V adapter in.
- \* Optional wind shield ball, SB-01.
- \* Optional USB cable, USB-01.
- \* Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- \* EM-910P probe is the standard probe for SL-4112P.

# Vibration Meter

SERIES



## VIBRATION METER

**Model : VB-8200**

- \* Separate professional vibration sensor.
- \* Velocity : 200 mm/s.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* RMS, Peak, Hold, Record, RS-232/USB interface.

## VIBRATION METER

**Model : VB-8210**

- \* Built-in Metric & Imperial display unit.



## VIBRATION METER, Acc., Velocity, Disp.

**Model : VB-8220**

- \* Separate professional vibration sensor.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* Velocity : 200 mm/s.
- \* Displacement (p-p) : 2 mm.
- \* RMS, Peak value.
- \* RS-232/USB computer interface.
- \* Hard carrying case is included.
- \* DC 9V battery (006P).



## Acc., Vel., Displacement, data logger

### VIBRATION METER

**Model : VB-8213**

- \* Acceleration : 200 m/s<sup>2</sup>.
- Velocity : 200 mm/s.
- Displacement : 2.0 mm.
- \* Max hold, peak value, data hold.
- \* Memory ( Max., Min. )
- \* LCD display with bar graph.
- \* 500 point data logger.
- \* Zero adjustment, RS-232/USB computer interface.
- \* Optional data transmission software, SW-DL2005.
- \* Accelerator and hard carrying case are included.



## 3 in 1

### VIBRATION/TACHOMETER

**Model : VT-8204**

- \* Separate professional vibration sensor.
- \* Vibration meter :  
Acceleration : 200 m/s<sup>2</sup>, RMS, PEAK, Max. Hold, g, ft/s<sup>2</sup>.
- Velocity : 200 mm/s, RMS, PEAK, Max. Hold, cm/s, inch/s.
- Displacement (p-p) : 2 mm, Max. Hold, cm, inch.
- \* Tachometer ( photo ) : 10 to 100,000 RPM.
- Tachometer ( contact ) : 5 to 19,999. RPM
- Tach. ( surface speed ) : m/min., ft/min. inch/min.
- \* Laser photo tachometer.
- \* 1000 Data logger point.
- \* Data hold, record ( Max., Min. )
- \* Optional IR probe, IR-962.
- \* RS-232/USB computer interface.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs.
- \* Patented.



## VIBRATION METER Model : VB-8202

- \* Separate professional vibration probe.
- \* Velocity : 200 mm/s.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* RMS, Peak, Hold, Record, RS-232/USB interface.

## VIBRATION METER Model : VB-8212

- \* Built-in Metric & Imperial display unit.



## Acc., Vel., Displacement, data logger

### VIBRATION METER

**Model : VB-8203**

- \* Acceleration : 200 m/s<sup>2</sup>.
- Velocity : 200 mm/s.
- Displacement (p-p) : 2 mm.
- \* Max hold, peak value, data hold.
- \* Memory ( Max., Min. )
- \* LCD display with bar graph.
- \* RS-232/USB interface, data logger.
- \* Hard carrying case is included.
- \* Size : 200 x 68 x 30 mm,
- Power : 9V battery.



## VIBRATION METER

**Model : VB-8201HA**

- \* Professional vibration sensor is included.
- \* Velocity : 200 mm/s.
- \* Acceleration : 200 m/s<sup>2</sup>.
- \* RMS, Peak Hold, Max./Min.
- \* Size : 185 x 78 x 38 mm.

# Moisture, Soil Moisture SERIES



## MOISTURE METER

**Model : MS-7000**

- \* Range : 9% to 30% moisture content.
- \* 9 material species groups in memory.
- \* Max., Min., Data hold, Self-calibration.
- \* Size : 180 x 72 x 32 mm. RS-232/USB.



## all in one, bar graph LED + LCD MOISTURE METER

**Model : MS-7003**

- \* Wood and concrete moisture measurement.
- \* Wood material : 6 % to 40 % moisture content.
- \* Concrete material : 0 % to 100 % moisture content.
- \* Red LED bar graph indicator with LCD display,
- \* Meter is built-in test probe, all in one, easy operation.
- \* Data hold, Record ( max., min. ).
- \* Optional external probe, Model : MP-31.
- \* DC 9V battery ( 006P ).



## CONCRETE /WOOD MOISTURE METER

**Model : MS-7002**

- \* 3 functions : Concrete, Wood, Gypsum.
- \* Wood : 6% to 40% moisture content.
- \* Concrete : 0% to 100% moisture content.
- \* Gypsum: 0.2% to 50% moisture content.
- \* Max., Min., Data hold, Self-calibration.
- \* Size : 180 x 72 x 32 mm. RS-232/USB.



## MOISTURE METER

**Model : MS-7001**

- \* Range : 9% to 30% moisture content.
- \* Max., Min., Data hold.
- \* Economical Moisture meter.
- \* Size : 185 x 78 x 38 mm.



## MOISTURE METER

**Model : PMS-713**

- \* Wood and concrete moisture measurement.
- \* Wood material : 6 to 40% moisture content.
- \* Concrete material : 0 to 100% moisture content.
- \* Meter is built-in test probe, all in 1, easy operation.
- \* Hold function to freeze display value.
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## SOIL MOISTURE METER

**Model : PMS-714**

- \* Soil moisture content measurement.
- \* Range : 0 to 50 % moisture content.
- \* Heavy duty probe, probe length : 20 cm.
- \* Meter is built-in test probe, all in one, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.

# EMF (Low Frequency) SERIES



## EMF TESTER

Model : EMF-823

- \* Electromagnetic field tester.
- \* Ranges : 20/200/2,000 micro Tesla.  
200/2000/20,000 milli-Gauss.
- \* Size : 163 x 70 x 30 mm, 13 mm LCD.



## 3 axis EMF TESTER

Model : EMF-828

- \* Three axis ( X, Y, Z direction ) electromagnetic field measurement.
- \* Ranges : 20/200/2,000 micro Tesla.  
200/2,000/20,000 milli-Gauss.
- \* Band width : 30 Hz to 300 Hz.
- \* LCD display, jumbo digit size.
- \* Heavy duty separate probe.
- \* Data hold, DC 9V battery.
- \* Hard carrying case is included.
- \* Size : 200 x 68 x 30 mm.



## EMF TESTER, separate probe

Model : EMF-827

- \* Electromagnetic field tester.
- \* Ranges : 20/200/2,000 micro Tesla.  
200/2000/20,000 milli-Gauss.
- \* Separate probe.
- \* Size : 163x70x30 mm.



## EMF TESTER, pocket

Model : EMF-822A

- \* Electromagnetic field tester.
- \* 20 micro Tesla x 0.01 micro Tesla
- \* 200 milli Gauss x 0.1 milli Gauss
- \* Display : 13 mm LCD. Pocket size.
- \* Size : 131 x 70 x 25 mm

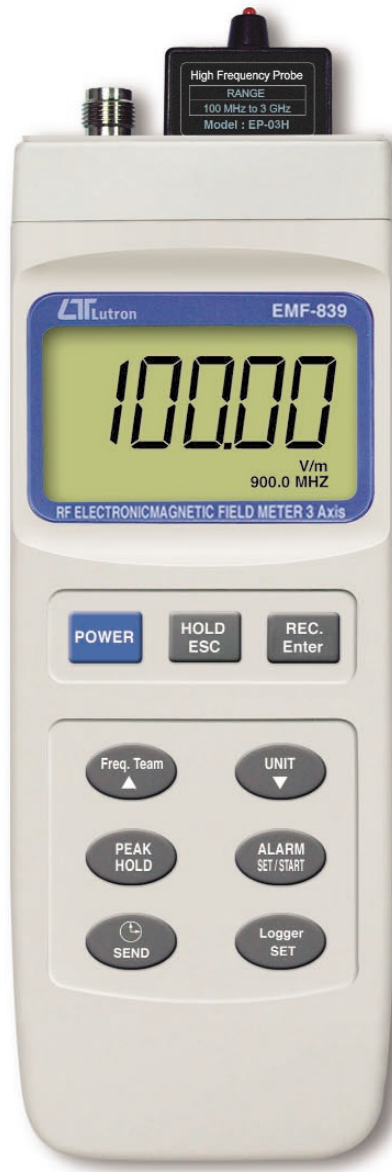
# RF (Radio Frequency) Electromagnetic Field Meter



## 50 MHz to 3 GHz, general purpose, one probe 3 Axis RF Electromagnetic Field Meter

### Model : EMF-819

- \* 3 Axis RF EMF tester, general purpose application.
- \* Frequency range up to 3 GHz, for monitoring the wide range radio frequency EMF value or detect the micro wave leakage.
- \* Measuring ranges : 0 to 199.99 V/m,  
0 to 99.999 W/m<sup>2</sup>  
0 to 9.9999 mW/cm<sup>2</sup>
- \* Data hold, Peak hold. Record ( Max., Min. value ).
- \* Frequency Probe, EP-05H is included .
- \* Hard carrying case is included..
- \* RS232/USB computer interface.
- \* Large size LCD, Microcomputer circuit.
- \* Powered by DC 9V battery or DC 9V adapter.



## 100 KHz to 3 GHz, 2 probes, professional 3 Axis RF Electromagnetic Field Meter

### Model : EMF-839

- \* 3 axis probe structure, professional RF frequency electromagnetic field tester.
- \* Frequency range : 100 KHz to 3 GHz.
- \* Units : V/m, W/m<sup>2</sup>, mW/cm<sup>2</sup>.
- \* Measuring ranges : 0 to 199.99 V/m,  
0 to 99.999 W/m<sup>2</sup>,  
0 to 9.9999 mW/cm<sup>2</sup>
- \* Probe 1 ( low frequency probe ) : 100 KHz to 100 MHz, Model EP-04L.
- \* Probe 2 ( high frequency probe ) : 100 MHz to 3 GHz, Model EP-03H.
- \* Data hold, peak hold.
- \* Record ( Max., Min. value ).
- \* Peak hold function to latch peak value.



EP-03H  
High frequency probe  
100 MHz to 3 GHz

EP-04L  
Low frequency probe  
100 KHz to 100 MHz

- \* Data hold function to lock the current reading.
- \* RS232/USB computer interface.
- \* Real time data logger, built-in clock ( hour-MIN-sec., year-month-date ).
- \* Auto or manual data record, 16,000 Data logger no.
- \* Alarm value setting.
- \* Complete set with two probes, EP-04L, EP-03H and hard carrying case.
- \* Applications :  
EMF-839 is professional RF EMF tester, used for broadband devices of monitoring high frequency radiation in the range electromagnetic field strength measurement of the Mobile phone, cell phone base station, microwave leakage...



**COLOR ANALYZER, probe + meter, RS232**

**Model : RGB-1002**

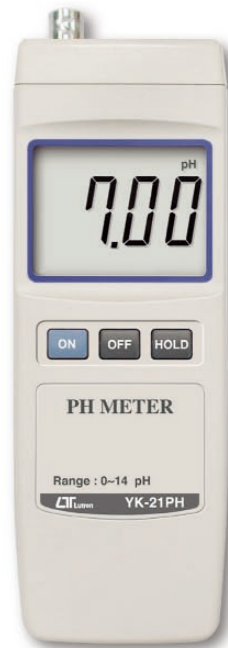
- \* Measuring sample : no lighting sample ( textiles, paper, leathers... ).
- \* Measurement values : RGB value, HSL value ( Hue/Saturation/Luminance ).
- \* R ( Red ) value : 0 to 1023.  
G ( Green ) value : 0 to 1023.  
B ( Blue ) value : 0 to 1023.
- \* 45° /0° color measuring geometry.
- \* Used the spectral analysis method to determine the color of the sample.
- \* Complete set includes the color probe and the meter, showing RGB or HSL values at same time.
- \* RS232/USB computer interface.
- \* Power : 006P DC 9V battery.
- \* Meter size : 203 x 76 x 38 mm.



**PH METER, RS-232**

**Model : PH-208**

- \* pH : 0 to 14.00 pH,  $\pm 1999$  mV.
- \* mV function for ORP electrode.
- \* Manual temperature compensation.
- \* ATC via optional Temp. probe ( TP-07 ).
- \* Easy pH calibration procedures.
- \* RS232/USB, Hold, Record ( Max., Min. ), °C/°F.



**PH METER**

**Model : YK-21PH**

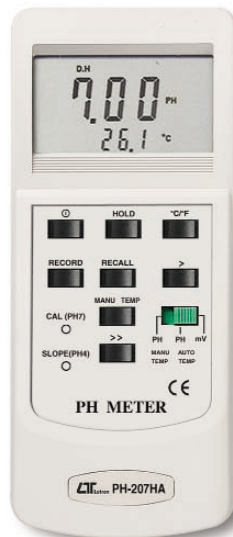
- \* 0 to 14 pH x 0.01 pH.
- \* Large LCD display, 21.5 mm digit height.
- \* Accuracy :  $\pm 0.1$  pH ( pH 4 to pH 10 ).
- \* Data hold, professional case.



**PH METER, RS-232**

**Model : PH-207**

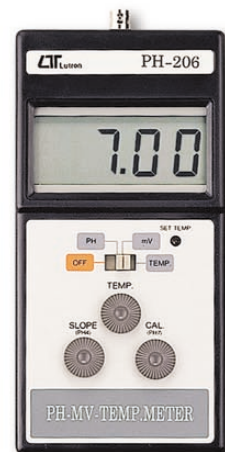
- \* 0 to 14 pH x 0.01 pH.
- \*  $\mu$ -P circuit, LCD with annunciator.
- \* Max., Min., Memory recall button.
- \* pH, mV, Temp., manual Temp. Adj. and ATC, RS232/USB interface.
- \* Size : 180 x 72 x 32 mm. RS232/USB.



**PH METER**

**Model : PH-207HA**

- \* 0 to 14 pH x 0.01 pH.
- \*  $\mu$ -P circuit, LCD with annunciator.
- \* Max., Min., Memory recall button.
- \* pH, mV, Temp., manual Temp. Adj. or ATC.



**PH-mV-TEMP. METER**

**Model : PH-206**

- \* pH : 0 to 14.00 pH, mV : -1999 to 1999 mV, Temp. : 0 to 100.0 °C.
- \* Manual/Auto Temp. compensation.
- \* Size : 160 x 80 x 35 mm.



**PH METER, pocket**

**Model : PH-201**

- \* 0 to 14 pH x 0.01 pH.
- \* Economical type.
- \* pocket size.
- \* Accuracy :  $\pm 0.1$  pH ( pH 4 - pH 10 ).
- \* Display : LCD, 13 mm digit size.
- \* Size: 131 x 70 x 25 mm.



# pH Meters SERIES Soil pH Meters



## PEN PH METER

### Model : PH-220

- \* Separate pH electrode, easy for general purpose and remote measurements.
- \* 0 to 14.00 pH.
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Temp. adjustment is not necessary.
- \* IP-65 water proof.
- \* Pen type, easy carry out.
- \* Complete set with separate pH electrode ( PE-11 ) and pH 4, pH 7 standard solutions.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.



## PEN PH METER

### Model : PH-222

- \* 0 to 14.00 pH.
- \* ATC ( auto temperature compensation ).
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Meter with pH electrode, all in one.
- \* IP-67, water proof.
- \* Easy replacement for the pH electrode.
- \* Pen type, easy carry out.
- \* Data logger.
- \* pH 4, pH 7 standard solutions are included.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.

## PEN PH METER, *economical type*

### Model : PH-223

- \* 0 to 14.00 pH.



## SOIL PH METER

### Model : PH-220S

- \* Complete set with separate soil, spear tip pH electrode and pH 4 and pH 7 standard solutions.
- \* Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- \* Auto calibration for pH 4, pH 7 or pH 10.
- \* Temp. adjustment is not necessary.
- \* IP-65 water proof.
- \* Built-in reverse display button.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.
- \* Spear tip pH electrode, ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



## SOIL PH METER

### Model : PH-212

- \* Kits with pH METER, soil pH electrode, pH 4.0/pH 7.0 standard solutions, carrying case.
- \* Meter : 0 to 14 pH x 0.01 pH. Electrode : 1 to 13 pH.
- \* Pocket housing, LCD display.
- \* Meter size : 135 x 60 x 33 mm.
- \* Spear tip pH electrode ( included ), ideal for penetration pH measurements into soil, meats, cheese and other type of measurements requiring sample penetration.



## PH METER, *ATC ,two displays*

### Model : PH-221

- \* 0 to 14.00 pH,  $\pm 1,999$  mV.
- \* LCD shows both pH and the temperature.
- \* ATC or manual TEMP. compensation.
- \* Auto calibration for pH 4, pH 7 and pH 10.
- \* Optional pH electrode and the ATC probe.
- \* 1600 Data logger point.
- \* RS232/USB computer interface.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



## PH METER

### Model : PH-211

- \* 0 to 14 pH x 0.01 pH.
- \* Pocket size, LCD display.
- \* Wall mount available for monitoring usage.
- \* Size : 135 x 60 x 33 mm.

# pH Electrode pH Solution



PE-03



PE-11



PE-01



PE-02

## pH ELECTRODE Model : PE-03

- \* General purpose, cost effective.
- \* 1 to 13 pH (typical 0 to 14 pH).
- \* Epoxy body, w/BNC connector.
- \* Body size : 12.3 mm Dia. x 160 mm.

## pH ELECTRODE Model : PE-11

- \* General purpose, high quality, cost effective.
- \* 1 to 13 pH ( typical 0 to 14 pH ).
- \* Epoxy body, w/BNC connector.
- \* Size : 10 mm Dia. x 128 mm.

## pH ELECTRODE Model : PE-01

- \* Professional, Laboratory, high quality & field usage.
- \* 0 to 14 pH.
- \* Epoxy body with BNC connector.
- \* Size : 9.5 mm Dia. x 130 mm.

## glass body HEAVY DUTY pH ELECTRODE Model : PE-02

- \* Glass body heavy duty and long life pH electrode.
- \* Professional, Laboratory, high quality & field usage.
- \* 0 to 14 pH.
- \* BNC connector.
- \* Size : 15 mm Dia. x 150 mm.

## glass body PLANE pH ELECTRODE Model : PE-08

- \* Professional plane pH electrode, application for Laboratory, high quality & field usage, such as skin, food... pH measurement.
- \* 0 to 14 pH.
- \* Glass body with BNC connector.
- \* Size : 15 mm Dia. x 137.5 mm.

## pH ELECTRODE + TEMP. PROBE Model : PE-03K7

- \* One kit combine pH electrode PE-03 & Temp. probe TP-07 as a whole unit.
- \* Easy operation for the pH measurement under the ATC ( Automatic Temp. Compensation ).
- \* Available for PH-208, PH-207, PH-207HA, YK-2001PH, YK-2005WA, PH-209B, PH-221, PH-221E, PH-230SD, WA-2015, WA-2017SD, BPH-231.

## OPTIONAL TEMP. PROBE for pH METER Model : TP-06

- \* The optional Temp. probe for PH-206.
- \* Transistor sensor, 0 to 60 °C.

## Model : TP-07

- \* The optional Temp. probe for PH-207, PH-207HA, PH-208, PH-209B, YK-2005WA, WA-2015, WA-2017SD, PH-221, PH-221E, BPH-231.
- \* Thermistor sensor, 0 to 60 °C.



PE-08



PE-03K7



TP-06  
TP-07

## professional Industrial in line pH ELECTRODE Model : PE-21

- \* Heavy duty pH electrode, design for monitoring pH value continuously in the factory and laboratory.
- \* Range : 0 to 14 pH.
- \* Available for pH controller, PPH-2108. refer page 85.

## SPEAR TIP pH ELECTRODE Model : PE-06HDA

- \* Penetration pH measurement into meats, cheese, soil and other penetration samples.
- \* General purpose, cost effective.

## SPEAR TIP pH ELECTRODE Model : PE-04HD

- \* The PH-04HD spear tip pH electrode is ideal for penetration pH measurements into meats, cheese, soil and other types of measurements requiring sample penetration.
- \* pH range : 0 to 14 pH. Temp. range : 0 to 60 °C.
- \* Size : 12 mm Dia. x 157 mm.



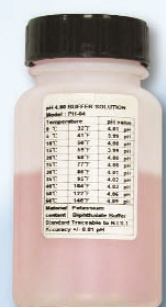
PE-21



PE-06HDA



PE-04HD



PH-07, PH-04



PH-07A, PH-04A

## pH 7 BUFFER SOLUTION Model : PH-07

- \* pH 7.00 buffer solution.

## pH 4 BUFFER SOLUTION Model : PH-04

- \* pH 4.00 buffer solution.

## pH 7 BUFFER SOLUTION Model : PH-07A

- \* pH 7.00 buffer solution.

## pH 4 BUFFER SOLUTION Model : PH-04A

- \* pH 4.00 buffer solution.



### CONDUCTIVITY METER

**Model : YK-43CD**

- \* 2 Ranges : 2 mS, 20 mS.
- \* Large LCD display, 21.5 mm digit height.
- \* Automatic temperature compensation.
- \* Data hold, professional housing case.



### CONDUCTIVITY/TDS/SALT METER

**Model : YK-22CTA**

- \* Conductivity : 200 uS, 2 mS, 20 mS, 200 mS.
- \* Function Conductivity, TDS, Salt.
- \* Temp. : 0 to 60.0 °C, °C/°F.
- \* ATC, RS232/USB, Hold, Record.



### Wide range CONDUCTIVITY METER

**Model : CD-4306**

- \* Wide ranges conductivity meter.
- \* 4 ranges : 200 uS, 2 ms, 20 mS, 200 mS.
- \* 4 rings conductivity probe
- \* Data hold.



### CONDUCTIVITY METER

**Model : CD-4303**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* 200  $\mu$ S/2 mS/20 mS, ATC, Cell Adj.
- \* RS232/USB computer interface.
- \* Size : 180 x 72 x 32 mm .



### ATC, two displays

### CONDUCTIVITY METER

**Model : CD-4322**

- \* 3 ranges : 2 mS, 20 mS, 100mS.
- \* Temperature measurement, °C/ °F.
- \* LCD display, pocket type.
- \* Automatic temperature compensation.
- \* 1600 Data logger point.
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.



### Pen type

### CONDUCTIVITY METER

**Model : PCD-431**

- \* 2 ranges : 2,000 uS, 20 mS.
- \* Temperature measurement, °C/°F.
- \* Automatic temperature compensation.
- \* Probe with the meter, all in one.
- \* Carbon rode electrode, high reliability.
- \* Data hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### CONDUCTIVITY METER

**Model : CD-4301**

- \* 4 ranges: 200  $\mu$ S, 2mS, 20mS.
- \* Automatic temperature compensation.



### CONDUCTIVITY METER

**Model : CD-4303HA**

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Max., Min., Memory recall button.
- \* 200uS/2mS/20mS, ATC, Cell adj.
- \* Size : 185 x 78 x 38 mm.



### CONDUCTIVITY METER, pocket

**Model : CD-4302**

- \* 2 ranges : 0 -1.999 mS, 2 -19.99 mS.
- \* Automatic temperature compensation.



**1.413 mS  
Conductivity solution  
Model : CD-14**

# Dissolved Oxygen SERIES



## OXYGEN METER

Model : DO-5510

- \*  $\mu$ -P circuit, LCD with annunciator.
- \* Dissolved oxygen range : 0 to 20.0 mg/L.
- \* Temp. : 0 to 50 °C, °C/°F.
- \* Max., Min., Memory recall button.
- \* DO, Oxygen in air, Temp., ATC, Auto Calibration, % salt, RS232/USB.
- \* Head diaphragm set & electrolyte are included.



## OXYGEN METER

Model : DO-5510HA

- \*  $\mu$ -P circuit, LCD with display unit.
- \* Dissolved oxygen range: 0 to 20 mg/L.
- \* Max., Min., Memory recall button.
- \* DO, Oxygen in air, Temp., ATC, Auto cal.
- \* Probe head with diaphragm set and electrolyte are included.



## DISSOLVED OXYGEN METER, all in 1

Model : PDO-519

- \* Range : 0 to 20.0 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Automatic temperature compensation.
- \* Probe with the meter, all in one.
- \* Polarographic type oxygen electrode, professional.
- \* Data hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## separate probe

## DISSOLVED OXYGEN METER

Model : PDO-529

- \* Range : 0 to 20.0 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C, °C/°F.
- \* Automatic temperature compensation.
- \* Separate DO probe easy for remoting operation.
- \* Polarographic type oxygen electrode, professional.
- \* Data hold, Record ( max., min. ).
- \* External calibration buttons.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



## DISSOLVED OXYGEN METER

Model : YK-22DOA

- \* 0 to 20.0 mg/L.
- \* Temp. : 0 to 50.0 °C, °C/°F.
- \* Automatic temperature compensation.
- \* RS232/USB, Hold, Record ( Max., Min. )
- \* Head diaphragm set & electrolyte are included.



## DISSOLVED OXYGEN METER, two displays

Model : DO-5519

- \* Range : 0 to 20 mg/L x 0.1 mg/L.
- \* Temperature : 0 to 50 °C.
- \* LCD display, pocket size.
- \* Automatic temperature compensation.
- \* 1600 Data logger point.
- \* Separate probe, easy operation.
- \* RS232/USB interface, Record ( max., min. )
- \* Power : DC 9V battery or DC 9V adapter in.



## DISSOLVED OXYGEN METER, pocket

Model : DO-5509

- \* Range : 0 to 20 mg/L, ATC.
- \* Head diaphragm set & electrolyte are included.



OXEL-03 OXHD-04

## DO probe filling electrolyte

Model : OXEL-03

## DO probe head diaphragm set

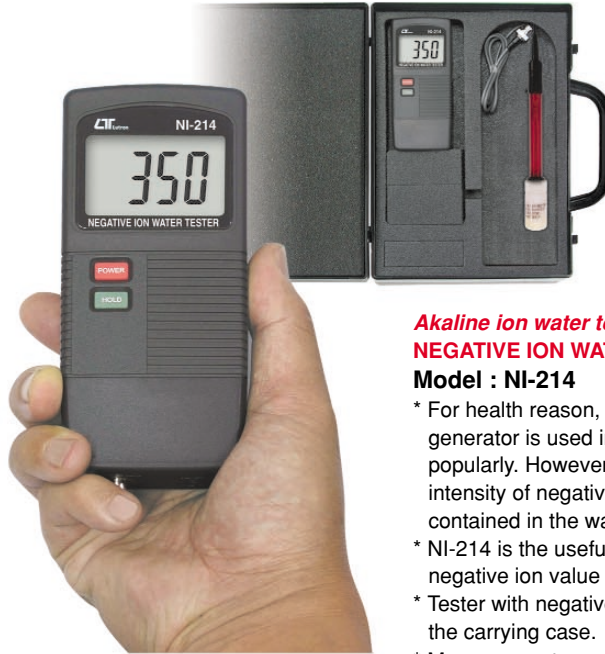
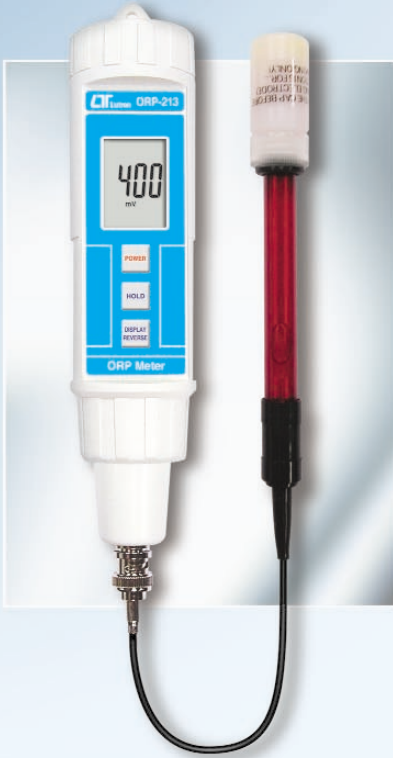
Model : OXHD-04

# ORP, ORP Electrode Negative Water SERIES

## ORP METER

### Model : ORP-213

- \* Range : -1,000 mV to 1,000 mV.
- \* Professional ORP electrode, ORP-14 is included.
- \* Separate ORP electrode, easy operation.
- \* High input impedance.
- \* Data hold.
- \* Built-in reverse display button.
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AA ) x 4, long life.



## Akaline ion water tester NEGATIVE ION WATER TESTER

### Model : NI-214

- \* For health reason, negative ( alkaline ) water generator is used in the home and office popularly. However seldom peoples know the intensity of negative ( alkaline ) ions that are contained in the water.
- \* NI-214 is the useful tester to measure the negative ion value in the water.
- \* Tester with negative ion ( ORP ) probe and the carrying case.
- \* Measurement range : 0 to  $\pm 1,999$  mV.
- \* LCD display, data hold.
- \* DC 9V battery ( 006P ).

## ORP ELECTRODE, professional

### Model : ORP-14

- \* Professional ORP electrode with high accuracy and extreme reliability.
- \* Silver-silver/chloride reference gel.
- \* Epoxy body, BNC connector and 3 meters cable.
- \* 12.5 mm Dia, x 150 mm length.
- \* Range : -2,000 to 2,000 mV.
- \* Optional, to cooperate ORP meters ( ORP-203, YK-23RP, PH-206, PH-207, PH-207HA, PH-208, YK-2001PHA, PH-221, PH-221E, WA-2015, WAC-2019SD, WA-2017SD, BPH-231, YK-2005WA ), applications for water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, quality control.
- \* ORP-14 is the standard accessory ( included ) of NI-214, ORP-213.

## ORP ELECTRODE

### Model : ORP-15



ORP-14



## ORP METER

### Model : YK-23RP

- \* Range : -1999 mV to + 1999 mV.
- \* Large LCD display, 21.5 mm digit height.
- \* High input impedance.
- \* Data hold, professional housing case.



(Optional)

## ORP METER

### Model : ORP-203

- \* Range : -1999 mV to + 1999 mV.
- \* High impedance.
- \* Pocket size.
- \* Display : LCD 13 mm digit size.
- \* Size : 131 x 70 x 25 mm.



### SALT METER

**Model : PSA-311**

- \* Measurement : 0 to 12.0 % salt ( % weight value )
- \* Automatic temperature compensation.
- \* Meter is built-in test probe, all in 1, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-65 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### PURE WATER TESTER

**Model : WA-300**

- \* Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999  $\mu$ S.



### PURE WATER METER

**Model : PWA-301**

- \* Water conditioning, aquarium, food processing, photography, school, laboratory, industrial and quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999  $\mu$ S.
- \* Meter with the probe, all in 1, easy operation.
- \* Hold, Record ( max., min. ).
- \* IP-67 Water resistance, heavy duty.
- \* DC 1.5V battery ( UM-4, AAA ) x 4.



### PURE WATER TESTER

**Model : YK-30WA**

- \* Water conditioning, home, aquariums, food processing, photography, school, laboratory, industry & quality control.
- \* Check the condition of water filter.
- \* Measurement : 0 to 1999  $\mu$ S.
- \* 21.5 mm digit height, Data hold.



### SALT METER

**Model : YK-31SA**

- \* Measurement : 0 to 10.0% salt ( % weight ).
- \* Large LCD display, 21.5 mm digit height.
- \* Automatic temperature compensation.
- \* Data hold, professional housing case.
- \* Aquariums, Water conditioning laboratory, industry & quality control.



**HUMIDITY CONTENT METER,  
+ type K Temp.**

**Model : MS-7011**

- \* Complete set, meter + humidity probe ( MS-71P ).
- \* Stainless Humidity content probe, used to measure the humidity content value for the materials of Grain, Corn, Rice. Cotton, Paper...
- \* Functions : Humidity content , Dew point, Type K Thermometer.
- \* Humidity content : 10 to 95 %RH.
- \* Type K Temp. : -100.0 to 1300.0 °C.
- \* Thin-film capacitance sensor for humidity content measurement.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* Probe MS-71P is included, size : 10 mm Dia. x 600 mm length.



**TURBIDITY METER**

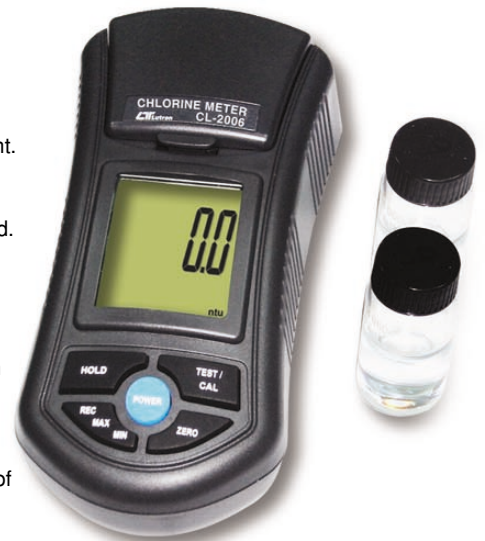
**Model : TU-2016**

- \* Range : Auto range, two ranges, 0.00 to 50.00 NTU, 50 to 1,000 NTU.
- \* Resolution : 0.01 NTU/1 NTU.
- \* Light source : LED, 850 nm.
- \* Record Max., Min. value.
- \* Power : 1.5 V battery ( UM-4/AAA ) x 6 PCs.
- \* 0 NTU and 100 NTU Calibration solution are included.
- \* Designed to meet ISO 7027.

**Free and Total  
CHLORINE METER**

**Model : CL-2006**

- \* Free chlorine, total Chlorine measurement.
- \* Range : 0 to 3.5 mg/L ( ppm ).
- \* Range : Auto range.
- \* Measuring principal : Photo meter method.
- \* Light source : LED, 525 nm.
- \* Record Max, Min. value.
- \* 10 PCs Free and Total powder DPD are included.
- \* Free and total 1.0 mg/L standard solution are the standard accessories.
- \* Power : 1.5 V battery ( UM-4/AAA ) x 6 PCs.
- \* The measuring method is an adaptation of the USEPA Method 330.5 and Standard Method 4500-Cl G.



**HUMIDITY CONTENT PROBE**

**Model : MS-71P**

- \* Standard probe is included for MS-7011, MS-7012SD.

**MICROWAVE LEAKAGE DETECTOR**

**Model : EMF-810**

- \* Operating freq. range : 2.45 GHz  $\pm$  50 MHz.
- \* Measurement range : 0 to 1.999 mW/cm.<sup>2</sup>
- \* Peak hold, Alarm Setting.
- \* Application for measuring the EMF value of microwave frequency precisely.
- \* Useful equipment to detect the leakage of microwave oven.



# Force Gauge

SERIES



## FORCE GAUGE, 5,000 g

### Model : FG-5005

- \* 5,000 g, g/oz/Newton.
- \* Tension or Compression, Peak hold, Zero.
- \* Positive/ Reverse display.
- \* 4 digits LCD with back light.
- \* RS-232/USB computer interface.
- \* Full line accessories, optional test stand.
- \* DC 1.5V battery ( UM-3, AA ) x 6 or DC 9V adapter in.



## FORCE GAUGE, 20 Kg

### Model : FG-5020

- \* 20 Kg, Kg/LB/Newton.
- \* Tension or Compression, Peak hold, Zero,
- \* Positive/ Reverse display.
- \* 4 digits LCD with back light.
- \* RS-232/USB computer interface.
- \* Full line accessories, optional test stand.
- \* DC 1.5V battery ( UM-3, AA ) x 6 or DC 9V adapter in.



5 Kg



20 Kg

## FORCE GAUGE, 5000 g

### Model : FG-5000A

- \* 5000 g, g/oz/Newton.
- \* Tension & Compression, Peak hold, Zero, Positive/ Reverse display , 5 digits LCD.
- \* Full line accessories, optional test stand.
- \* RS-232 Model : FG-5000A-232.

## FORCE GAUGE, 20 kg

### Model : FG-20KG

- \* 20 kg, kg/LB/Newton.
- \* Tension & Compression, Peak hold, Zero, Positive/ Reverse display , 5 digits LCD.
- \* Full line accessories, optional test stand.
- \* RS-232 Model : FG-20KG-232.



## FORCE GAUGE, 100 Kg

### Model : FG-5100

- \* 100 Kg, Kg/LB/Newton.
- \* Tension or Compression, Peak hold, Zero,
- \* Positive/ Reverse display.
- \* 4 digits LCD with back light.
- \* RS-232/USB computer interface.
- \* Separate sensor, heavy duty.
- \* DC 1.5V battery ( UM-3, AA ) x 6 or DC 9V adapter in.



## WEDGE GRIP

### Model : WG-01

- \* Optional accessory for FORCE GAUGE TEST STAND ( FS-1001 ), it is used to hold the tested material.

## for FG-5005, FG-5020, FG-5000A, FG-20KG TEST STAND

### Model : FS-1001



## Torque, AC/DC Magnetic Precision Milligauss



### TORQUE METER, 15 Kg-cm

#### Model : TQ-8800

- \* Professional torque meter with separate probe.
- \* 15 Kg-cm torque sensor included.
- \* 3 units : 15 Kg-cm/13 LB-inch/147.1 N-cm.
- \* Peak, Data hold, Zero, Max./ Min.,Fast/Slow.
- \* RS232/USB computer interface.
- \* Size : 180 x 72 x 32 mm. RS-232.



### Precision AC/DC MAGNETIC METER PRECISION MILLI GAUSS METER

#### Model : GU-3001

- \* Precision magnetic measurement, use the high sensitivity gauss sensor, it can detect the magnetic fields as small as less than 1 milligauss.
- \* Measurements : mG ( milli Gauss ), uT ( micro Tesla ).
- \* Wide measure range :  $\pm 3,000$  milligauss.
- \* DC/AC magnetic measurements.
- \* Resolutions : 0.1 mG/1 mG, 0.01 uT/0.1 uT.
- \* Sensor : High sensitivity gauss sensor.
- \* Data hold. Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* 1.5 V battery ( UM-4/AAA ) x 6 PCs or DC 9V adapter.
- \* Optional USB cable, USB-01.
- \* Optional acquisition softwares, SW-U801-WIN, SW-E802.
- \* Wide applications for industrial, mechanical, material, electrical, laboratory field to check the material's contained magnetic field value.



### Wide range, general purpose AC/DC MAGNETIC METER

#### Model : MG-3002

- \* Wide range, general purpose magnetic measurement.
- \* Units : G ( Gauss ), mT ( milli Tesla ).
- \* DC/AC magnetic measurements.
- \* DC Range : 300.00 mT/3000.0 mT.
- \* AC Range : 150.00 mT/1500.0 mT.
- \* Resolutions : 0.01 mT/0.1 mT, 0.1 G/1 G.
- \* DC polarity : N/S.
- \* Sensor : Hall sensor.
- \* Zero, Data hold. Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* DC 9V battery ( 006 P ) x 1 PC or DC 9V adapter.
- \* Optional USB cable, USB-01.
- \* Optional acquisition softwares, SW-U801-WIN, SW-E802.



### heavy duty, professional Torque Wrench, 1000 Kg-cm

#### Model : TQ-8803

- \* Range : 1000 Kg-cm, 9,807 Newton-cm.
- \* Units : Kg-cm, lbf-in, lbf-ft, N-cm, N-m.
- \* Auto data hold function to freeze the last measurement reading.
- \* Size of square drive : 3/8 inch square.
- \* LCD display with backlight, easy readout.
- \* Auto shut off circuit to save battery life,
- \* Metallic heavy duty & compact housing case.
- \* Soft carrying case is included.
- \* Size : 450 mm x 55 mm x 37 mm.

# 5 in 1 SERIES Green power



## 5 in 1 METER

### Model : LM-8102

- \* Sound level meter : 30 to 130 dB, auto range.
- \* Humidity : 10 to 95 %RH, Temp.. ( °C/°F ).
- \* Anemometer : 0.4 to 30 m/s, Temp.. ( °C/°F ).
- \* Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Sound level meters meets IEC 61672 TYPE 2.
- \* Data hold, Record ( Max., Min. ), RS232/USB.
- \* 5 functions, all in one.



## 4 in 1 METER

### Model : LM-8100

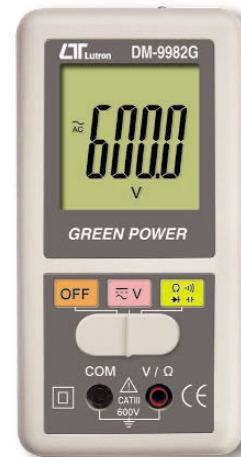
- \* Humidity : 10 to 95 %RH, Temp.. ( °C/°F ).
- \* Anemometer : 0.4 to 30 m/s, Temp.. ( °C/°F ).
- \* Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- \* Type K Thermometer : -100 to 1300 °C, °C/°F.
- \* Data hold, Record ( Max., Min. ), RS232/USB.

## Green power, hybrid power

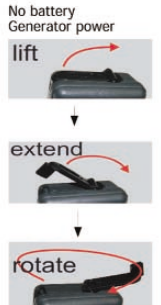
### SMART MULTIMETER

#### Model : DM-9982G

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, 2 intelligent functions : V, Ω.
- \* V : ACV, DCV measurement automatically.
- \* Ω : Ohm, Diode, Continuity, Cap. automatically.
- \* Large LCD display, 6,000 counts.
- \* CAT III-600V.
- \* Auto power off.
- \* DIY version, easy operation.
- \* Size : 151 x 78 x 43 mm.
- \* Patented.



## Smart Green Power

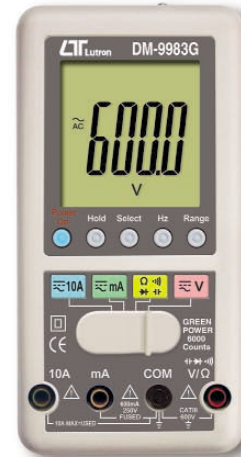


## Green power, hybrid power

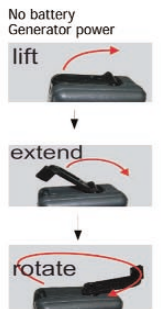
### SMART MULTIMETER

#### Model : DM-9983G

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, 3 intelligent functions : V, Ω, A.
- \* V : ACV, DCV measurement automatically.
- \* Ω : Ohm, Diode, Continuity, Cap. automatically.
- \* A : DCA, ACA, 10A/60mA/600mA.
- \* Function Keys : Hold / Select / Hz / Range.
- \* Large LCD display, 6,000 counts.
- \* CAT III-600V, Auto power off.
- \* Size : 151 x 78 x 43 mm.
- \* Patented.



## Smart Green Power



## Green power, Hybrid power

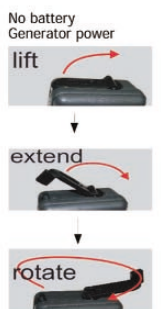
### CLAMP METER, smart

#### Model : CM-9942G

- \* Power supply from generator ( battery is no need ) or battery power.
- \* Smart operation, functions : A, V, Ω.
- \* V : ACV, DCV.
- \* Ω : Resistance , Diode, Continuity, Capacitance.
- \* A : ACA ( 600A, 1000A ) with auto range.
- \* Function keys : Hz, Hold.
- \* Heavy duty, CAT III-600V.
- \* Patented.



## Smart Green Power





**CO<sub>2</sub> METER, + Humidity, Temperature.**

**Model : GCH-2018**

- \* CO<sub>2</sub> range : 0 to 4,000 ppm.
- \* CO<sub>2</sub> sensor : NDIR, long term reliability.
- \* CO<sub>2</sub> with alarm setting.
- \* Functions : CO<sub>2</sub> ( Carbon dioxide ) Humidity, Dew point, Temperature.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface .



**SD Card real time data logger  
CO<sub>2</sub>/HUMIDITY/TEMP. DATA RECORDER**

**Model : MCH-383SD**

- \* Recorder with real time data logger, save the measuring data along the time information ( year, month, date, hour, minute, second ) into the SD memory card and can be downloaded to the Excel, extra software is not need.
- \* CO<sub>2</sub> range : 0 to 4000 ppm, max. 6000 ppm typically.
- \* Humidity : 10 to 90 %RH.
- \* Temperature : 0 to 50.0 °C, °C/°F.
- \* Show CO<sub>2</sub>, humidity and temperature values in the same LCD.
- \* Large LCD display, easy readout.
- \* Power supply from DC 9V adapter in, power adapter is included.
- Also need DC 1.5V ( UM-4/AAA ) battery x 6 PCs for clock power supply.
- \* RS232/USB computer interface.
- \* Size : 132 x 80 x 32 mm.



**O<sub>2</sub> METER, pen type**

**Model : PO2-250**

- \* O<sub>2</sub> ( Oxygen in air ), Temperature.
- \* O<sub>2</sub> range : 0 to 30.0 % x 0.1 %.
- \* Temperature. : 0 to 50 °C, °C/°F.
- \* Measurement response time : 30 seconds.
- \* Pen type, easy operation and carryout.
- \* DC 1.5V battery ( UM-4/AAA ) x 4 PCs.
- \* Pen type easy carryout.



**CO<sub>2</sub> METER, Temperature.**

**Model : GC-2028**

- \* CO<sub>2</sub> range : 0 to 4,000 ppm.
- \* CO<sub>2</sub> sensor : NDIR, long term reliability.
- \* CO<sub>2</sub> with alarm setting.
- \* Functions : CO<sub>2</sub> ( Carbon dioxide ) Dew point, Temperature.
- \* Data hold, Record ( Max., Min. ).
- \* RS232/USB computer interface .



**CO METER**

**Model : GCO-2008**

- \* CO ( Carbon monoxide ), Temperature.
- \* CO range : 0 to 1,000 ppm.
- \* Temperature. : 0 to 50 °C, °C/°F.
- \* CO response time : 30 second.
- \* Data hold Record ( Max., Min. ).
- \* RS232/USB computer interface.
- \* 1.5 V battery ( UM-4/AAA ) x 6 PCs or DC 9V adapter in.



**CO METER, pen type**

**Model : PCO-350**

- \* CO ( Carbon monoxide ), Temperature.
- \* CO range : 0 to 1,000 ppm.
- \* Temperature. : 0 to 50 °C, °C/°F.
- \* CO response time : 30 seconds.
- \* Data hold.
- \* Alarm beeper.
- \* DC 1.5V battery ( UM-4/AAA ) x 4 PCs.
- \* Pen type easy carryout.



Clamp Probe  
A1, A2, A3  
CP-1201



# 3 phase power analyzer SD card Data recorder 3,000 Amp Flexible current probe

SERIES

## SD Card real time data recorder, complete set 3 PHASE POWER ANALYZER

Model : DW-6093

- \* Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W.
- \* 3 current probes ( CP-1201 ) are included, if change the current probes, the calibration procedures are not necessary.
- \* Current probe input signal/ranges with selection :  
Input signal ( ACV ) : 200 mV/300 mV/500 mV/1 V/2 V/3 V.  
Ranges ( ACA ) : 20 A/200 A/2000 A/30 A/300 A/3000 A /6000 A.
- \* Meter can cooperate with other universal current probes.
- \* Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe ( CP-1201 ), AC to DC 9V adapter, 4 G SD memory card and Carrying bag.
- \* Voltage & Current are the True RMS value.
- \* True Power ( KW, MW, GW ).
- \* Apparent Power ( KVA, MVA, GVA ).
- \* Reactive Power ( KVAR, MVAR, GVAR ).
- \* Watt-Hour ( WH, SH, QH, PFH ).
- \* Power Factor ( PF ), Phase Angle ( Degree ).
- \* Voltage range : 10 to 600 ACV.
- \* Current range : 0.2 to 1200 ACA, CP-1201.
- \* Programmable CT ratio ( 1 to 600 ) and PT ratio ( 1 to 1000 ).
- \* ACV input impedance is 10 Mega ohms.
- \* Safety Standard : IEC 1010, CAT III 600V.
- \* Built-in clock and Calendar, real time data record with SD memory card , sampling time can be set from 2 to 7200 seconds. Just slot the SD card into the computer, all the measured values with the time information ( year, month, data, hour, minute, second ) can be downloaded to the Excel directly, then user can make the further data analysis by himself.
- \* Powered by AA ( UM-3 ) DC 1.5 V x 8 PCs batteries ( Alkaline type ) or DC 9V adapter.
- \* Computer data output, can cooperate with optional USB Cable/USB-01, RS232 cable/U PCB-02 and Data Acquisition softwares, SW-U811, SW-E802.
- \* Optional current probes : CP-1201, CP-200, CP-2000, CP-3000, CP-3001, CP-6001.
- \* User can order the meter only ( without the current probes ) with the special request if intend to cooperate their own current probes.
- \* Patented.



CP-3000-R red connector    CP-3000-Y yellow connector    CP-3000-B blue connector

### Flexible 3000 Amp current probe

Model : CP-3000-R ( red connector )

Model : CP-3000-Y ( yellow connector )

Model : CP-3000-B ( blue connector )

- \* Range : 30 A/300 A/3000 A.
- \* Output sensitivity : 100 mV/A, 10 mV/A, 1 mV/A.
- \* Output voltage : 3 ACV ( 30 A, 300 A, 3000 A ).
- \* Flexible probe length : 600 mm ( 23.6 inch ).  
Flexible probe diameter : 15 mm.
- \* Optional current probes for DW-6093, DW-6095.
- \* When changing the new probe, the calibration procedures are not necessary to be executed.
- \* Output cable : 4 meter wire, use the banana plugs, durable and safety.
- \* Power supply is from the meter ( DW-6093, DW-6095 ), battery is not necessary.
- \* CP-3000-R, CP-3000-Y, CP-3000-B :  
Function is same with one another, but for identification purpose, the connector color is different.



**POWER ANALYZER, Bench type**

**Model : DW-6090A**

- \* Multi-functions : WATT, VA, Whr, COS  $\theta$  ( Power factor ), ACV, ACA, DCV, DCA, Hz, ohm.
- \* True AC power ( Watt ) & apparent power ( VA ) measurement.
- \* True rms measurement for ACV, ACA.
- \* 0.1 W resolution ( < 1000 W ), high precision an high resolution in the low watt range, good performance for low power LED lamp watt measurement.
- \* Auto range.
- \* Accept different kinds current input signal : direct input, inductive clamp probe or CT ( current transformer ).
- \* Peak hold & data hold.
- \* Watt & VA measurement with Hi, low alarm setting.
- \* RS-232/USB computer interface.
- \* Optional USB cable, USB-01.
- \* Optional data acquisition software, SW-U801-WIN.
- \* Optional EXCEL data acquisition software, SW-E802.
- \* Power supply :  
DC 1.5V AA ( UM-3 ) battery x 6 PCs  
or AC to DC adapter  
( optional ).



**PRESSURE TRANSDUCER, 4 to 20 mA**

**Model : PS93MA-xxBAR**

- \* 6 models : 2/5/10/20/50/100/400 bar.
- \* Zero pressure - 4 mA, Full scale - 20mA.
- \* Power supply : DC 9V to 30V.
- \* 4 wires : 2 wires for power, two wires for signal.

**PRESSURE TRANSDUCER, 0 to DC 100mV**

**Model : PS93DV-xxBAR**

- \* 6 models : 2/5/10/20/50/100/400 bar.
- \* Zero pressure - 0 DCV, Full scale - 100 mV.
- \* Power supply : DC 9V to 30V.
- \* 4 wires : 2 wires for power, two wires for signal.



### DIGITAL SCALE, 500 g x 0.1 g

#### Model : GM-500

- \* LCD display, Tare, Load cell transducer.
- \* 6 x 1.5 V UM-3 batteries or AC adapter.
- \* Cabinet size : 240 x 185 x 50 mm.
- \* Platform size : Round, 120 mm Dia..
- \* RS232/USB computer interface.
- \* Optional USB cable, USB-01.
- \* Optional counting software, SCALE-U002.



### DIGITAL SCALE, 5000 g x 1 g

#### Model : GM-5000

- \* 5000 g x 1 g, 176.00 oz X 0.05 oz.
- \* LCD display, Tare, Load cell transducer.
- \* 6 x 1.5 V UM-3 batteries or AC adapter.
- \* Cabinet size : 240 x 185 x 50 mm.
- \* Platform size : 185 x 185 mm.
- \* Optional USB cable, USB-01.
- \* Optional counting software, SCALE-U002.

0.01 g

### 600 g x 0.01 g, high precision

#### DIGITAL BALANCE

#### Model : GM-610P

- \* High precision balance.
- \* Capacity : 600 g x 0.01 g.
- \* Units : gram, oz.
- \* Auto self-calibration, counting function.
- \* RS-232/USB computer interface.
- \* 6 x 1.5V UM-3 batteries or AC adapter.
- \* Platform size : round, 120 mm Dia..
- \* Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- \* Optional USB cable, USB-01.

#### Model : GM-600P, 600 g x 0.02 g

#### Model : GM-1500P, 1500 g x 0.05



### 600 g DIGITAL SCALE

#### Model : GM-600G

- \* Capacity : 600 g x 0.1 g
- \* Units : Gram, OZ, PCs.
- \* LCD display, automatic backlight.
- \* Platform size : 195 x 150 x 40 mm .
- \* Cabinet Size : 150 x 145 x 48 mm.
- \* With counting function, PCs measurement.
- \* Compact size.
- \* Battery power : 1.5 V ( UM3 ) x 6 PCs.



### 3 Kg DIGITAL SCALE

#### Model : GM-3KG

- \* Capacity : 3000 g x 1 g.
- \* Units : Gram, Pound, PCs.
- \* LCD display, automatic backlight.
- \* Platform size : 195 x 150 x 40 mm .
- \* Cabinet Size : 150 x 145 x 48 mm.
- \* Self calibration with memorize.
- \* With counting function, PCs measurement.
- \* Compact size.
- \* Battery power : 1.5 V ( UM3 ) x 6 PCs.





**HEAVY DUTY TEST LEAD**

**Model : TL-339R**

- \* CATIII-1000V approval.
- \* For EUROPE usage.

**HEAVY ALLIGATORS+TEST LEAD SET**

**Model : LN-A37 + LN-S05**

**USB CABLE**

**Model : USB-01**

- \* The computer interface cable, one side is the ear phone plug that is connected to the meter's RS232 output, the other side is the USB plug that is connected the computer's USB terminal.
- \* Ship along with the driver software.
- \* Available for all the LUTRON instruments ( built-in the RS232 interface ), then the meter will have the USB interface.



USB-01

UPCB-01

UPCB-02



**USB POWER TO DC 9V CONVERTER**

**Model : USBP-59**

- \* DC 5V to DC 9V converter.
- \* Output voltage : DC 9V.
- \* Input voltage : DC 5V.
- \* Output current : DC 800 mA max..
- \* Input current : Input current value is the output current value x 2.
- \* Input plug : standard USB plug.
- \* Output plug : 3.5 mm ear phone plug.
- \* Cable length : 1.8 meters.

- \* Output plug : ear phone plug, available for all LUTRON meters if it is built-in the DC 9V power socket.
- \* The external power of LUTRON meters is DC 9V ( via ear phone socket ). In many applications, the user needs the meter's external power source from the computer USB socket or from the normal USB power adapter. The USBP-59 is the convenient power converter to meet the above applications.



AP-9V110

AP-9V220

AP-9VA

AP-GTU

AP-GTE

**DC 9V POWER ADAPTER**

**Model : AP-9V110**

- \* Input voltage : 110/120 ACV, 50/60 Hz.
- \* Output voltage : DC 9V/0.8 Amp. rating.
- \* Output plug : round 2.5 mm dia..
- \* Linear transformer type.

**DC 9V POWER ADAPTER**

**Model : AP-9VA**

- \* Input voltage : 100 to 240 ACV, 50/60 Hz.
- \* Output voltage : Regulation DC 9V/1 Amp. rating max.
- \* Output plug : round 2.5 mm dia. plug.

**DC 9V POWER ADAPTER**

**Model : AP-9V220**

- \* Input voltage : 220/230 ACV, 50/60 Hz.
- \* Output voltage : DC 9V/0.8 Amp. rating.
- \* Output plug : round 2.5 mm dia..
- \* Linear transformer type.

**PLUG CONVERTER**

**Model : AP-GTU**

- \* Convert the input plug of AP-9VA from the Germany type to USA type.

**PLUG CONVERTER**

**Model : AP-GTE**

- \* Convert the input plug of AP-9V220 from the Germany type to UK ( England ) type.

**RS232 CABLE**

**Model : UPCB-01, UPCB-02**

- \* The computer interface cable, one side is the ear phone plug connected to the meter's RS232 output, the other side is the D9 plug connected the computer's COM terminal.
- \* UPCB-01 is the direct interface cable.
- \* UPCB-02 is the isolated ( photo couple ) interface cable.
- \* Available for all the LUTRON instruments ( built-in the RS232 interface )



### PANEL METER(DCV), 3 1/2 digits

**Model : DR-99DCV**

- \* 199.9 DCmV - 600 DCV, 5 ranges.
- \* Range can be adjusted by jumper wire.
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.



### PANEL METER(ACV), 3 1/2 digits

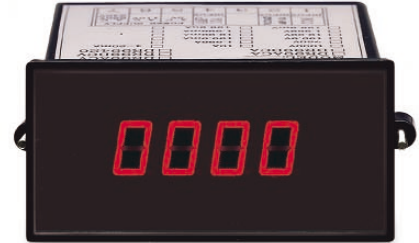
**Model : DR-99ACV**

- \* 199.9 ACmV - 600 ACV, 5 ranges.
- \* Range can be adjusted by jumper wire.
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.

### PANEL TACHOMETER

**Model : DT-2240D**

- \* 5 to 100,000 RPM (x 0.1 RPM, <1,000 RPM).
- \* Accuracy :  $\pm (0.05\% + 1 d)$ .
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.



### PROXIMITY SENSOR for DT-2240D

**Model : PX-01**



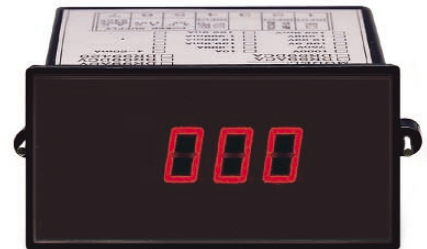
### PHOTO SENSOR (Photo Interrupter) for DT-2240D

**Model : PI-06**

### PANEL METER(Hz)

**Model : FC-422D**

- \* 0.5 to 500.0 Hz (x 0.01 Hz, <100 Hz).
- \* Input voltage : 5 to 250 ACV.
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.



### TEMPERATURE CONTROLLER/MONITOR

**Model : PTM-9957**

- \* Temp. sensor : type K/J/T/E/R/S thermocouple, Pt 100 ohm.
- \* Control setting, Hi/Lo alarm setting.
- \* Control relay output, alarm relay output.
- \* Temp. probes are optional.
- \* 96 x 48 mm DIN size, RS-232/USB interface.

### PANEL METER(DCA), 3 1/2 digits

**Model : DR-99DCA**

- \* 199.9 DC  $\mu$ A - 10 DCA, 6 ranges.
- \* Range can be adjusted by jumper wire.
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.



### PANEL METER(ACA), 3 1/2 digits

**Model : DR-99ACA**

- \* 199.9 AC  $\mu$ A to 10 ACA, 6 ranges.
- \* Range can be adjusted by jumper wire.
- \* 110/220/230 ACV power, 14 mm red LED.
- \* DIN size : 96 x 48 mm, Depth : 104 mm.





## 4-20 mA Controller/Alarm/Indicator

### Model : CT-2012

- \* Input : 4-20 mA DC, linear.
- \* User can default the desired display value between -1999 to 9999 ( decimal point can be selected to DP1, DP2, DP3 ) and all the preset data will be saved into the memory circuit permanently.
- \* When CT-2012 cooperates any to 20 mA transmitters, whole system will become the high performance Controller/Alarm/Indicator.
- \* Control output : 2 points ( COM, NO ).
- \* Alarm output : 2 points ( COM, NO ).
- \* DC voltage power supply output.
- \* RS232/USB computer interface.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.



PX-01  
(optional)



PI-06  
(optional)



Humidity probe  
( included )

## RPM CONTROLLER/MONITOR

### Model : PDT-2250

- \* 5 to 100,000 RPM ( 0.1rpm, <1,000 rpm ).
- \* Control setting, Hi/Lo alarm setting.
- \* Control relay output, alarm relay output.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* RS-232/USB computer interface.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.
- \* Optional proximity sensor PX-01, PX-02.
- \* Optional photo sensor PI-06.

## PANEL HUMIDITY/TEMP. METER

### Model : PHT-3109

- \* Humidity : 10 to 95 %RH.
- \* Temperature : 0 to 60 °C.
- \* Resolution : 0.1 %RH, 0.1 degree.
- \* Humidity control setting, Temp. control setting.
- \* Humidity control relay output, Temp. control relay output.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* RS-232/USB computer interface.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.
- \* Accessory included : Humidity/Temp. probe.



## RS232 CONTROLLER/MONITOR

### Model : PRS-2321

- \* Cooperate the LUTRON instruments ( built-in the RS232 interface ), the panel meter will show all the measuring value.
- \* U1 control setting, U2 control setting.
- \* U1 control relay output, U2 control relay output.
- \* U1, U2, U3 display.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* RS-232/USB computer interface.
- \* Interface cable UPCB-03 is included.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.



pH electrode, PE-21  
( Optional )

## pH CONTROLLER/MONITOR

### Model : PPH-2108

- \* 0 to 14 pH x 0.01 pH.
- \* ATC ( automatic temperature compensation ).
- \* pH control setting, Temp. control setting.
- \* pH control relay output, Temp. control relay output.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* RS-232/USB computer interface.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.
- \* Optional pH electrodes, ATC probe.

# Transmitter SERIES



**pH TRANSMITTER**  
**Model : TR-PHT1A4**  
 \* Range : 0 to 14 pH.  
 \* Output : 4 to 20 mA, DC.  
 \* Power : 90-260 ACV.

PE-21(optional)



**Light TRANSMITTER**  
**Model : TR-LXT1A4**  
 \* Ranges : 2,000/20,000/50,000 Lux.  
 \* Output : 4 to 20 mA, DC.  
 \* Power : 90-260 ACV.



**DISSOLVED OXYGEN TRANSMITTER**  
**Model : TR-DOT1A4**  
 \* Range : 0 to 20 mg/L.  
 \* Output : 4 to 20 mA, DC.  
 \* Power : 90-260 ACV.



**SOUND TRANSMITTER**  
**Model : TR-SLT1A4**  
 \* Ranges : 30 to 130 dB, 3 ranges.  
 \* Output : 4 to 20 mA, DC.  
 \* Power : 90-260 ACV.



**RPM TRANSMITTER**  
**Model : TR-RPM1A4**  
 \* Ranges : 2,000/20,000 RPM.  
 \* Output : 4 to 20 mA, DC.  
 \* Power : 90-260 ACV.

PX-01  
( optional )



**TRANSMITTER main body**  
 Connecting with Wires socket (included).



### TEMP. ( Type K ) TRANSMITTER

**Model : TR-TMK1A4**

- \* Range : 0 to 500 °C.
- \* Output : 4 to 20 mA, DC.
- \* Power : 90-260 ACV.



### TEMP. ( Pt 100 ohm ) TRANSMITTER

**Model : TR-TMP1A4**

- \* Range : -100 to 400 °C.
- \* Output : 4 to 20 mA, DC.
- \* Power : 90-260 ACV.



### TRANSMITTER main body

Connecting with Wires socket (included).



### ACV TRANSMITTER

**Model : TR-ACV1A4**

- \* Ranges : 150/300 ACV, isolated.
- \* Output : 4 to 20 mA, DC.
- \* Power : 90-260 ACV.



### ACA TRANSMITTER

**Model : TR-ACA1A4**

- \* Ranges : 1A/5 A, isolated.
- \* Output : 4 to 20 mA, DC.
- \* Power : 90-260 ACV.



### LOAD CELL TRANSMITTER

**Model : TR-LDT1A4**

- \* 1 to 2 mV/V, exciting DC 4V to 12V.
- \* Output : 4 to 20 mA, DC.
- \* Power : 90-260 ACV.

(Optional)



### 2000A DC/AC CLAMP TRANSMITTER

**Model : TR-CLP1A4**

- \* Ranges : 200/2,000 A, DC/AC.
- \* Output : 4 to 20 mA, DC.
- \* Clamp probe is included.
- \* Power : 90-260 ACV.

( optional )



# 2 Wires Transmitter

SERIES

## 2 WIRES PRESSURE TRANSMITTER

### Model : TR-PS2W-xxBAR

- \* Range : 2, 5, 10, 20, 50, 100 or 400 BAR.
- \* Output : 4 to 20 mA DC.  
4 mA = 0 pressure  
20 mA = full scale pressure
- \* 2 wires, both for signal and power supply.
- \* Precision ceramic type pressure sensor.
- \* External zero and span adjustments.
- \* Output with socket, easy replacement.
- \* Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- \* Protection for the reverse wires connecting.
- \* TR-PS2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a pressure controller and the indicating system. The user can control and monitor the pressure value remotely.



CT-2012 ( Pressure )

## IR Temperature CONTROLLER/MONITOR

### Model : PIR-9959A

- \* Input signal : 4 to 20 mA, 2 wires.
- \* Input sensor : Infrared Temp. transmitter, TR-IR420.
- \* Measurement : 0 to 300 °C, °C/°F.
- \* Control setting, Hi/Lo alarm setting.
- \* Control relay output, alarm relay output.
- \* Power : 90 ACV to 260 ACV, 50/60 Hz.
- \* Use the 4-20 mA input, IR temp. sensor can be installed in the faraway position.
- \* RS-232/USB computer interface.
- \* DIN size : 96 x 48 mm. Depth : 107 mm.
- \* IR Temp. Transmitter, TR-IR420 is the optional accessory.
- \* Optional USB cable, USB-01.
- \* Optional data acquisition software, SW-U801-WIN.
- \* Optional Excel data acquisition software, SW-E802.



## 2 WIRES HUMIDITY TRANSMITTER

### Model : TR-RH2W

- \* Range : 10 %RH to 95 %RH.
- \* Output : 4 to 20 mA DC.  
5.6 mA = 10 %RH, 12 mA = 50 %RH  
16 mA = 75 %RH, 19 mA = 95 %RH
- \* 2 wires, both for signal and power supply.
- \* Precision capacitance type humidity sensor.
- \* External zero and span adjustments.
- \* Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- \* Protection for the reverse wires connecting.
- \* TR-RH2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a humidity controller and the indicating system. The user can control and monitor the humidity value remotely.



CT-2012

## 4-20 mA output, Infrared Temp.

### IR Temp. TRANSMITTER

#### Model : TR-IR420

- \* Analog outputs, 4 to 20 mA :  
4 mA = 0 °C ( 32 °F ), 20 mA = 300 °C ( 572 °F )
- \* Emissivity : 0.95, fixed.
- \* D/S ( Distance/spot ) ratio : 7 : 1.
- \* Power supply : DC 9V to 30 V : Max. Output Load : 200 ohms.
- \* 3 wires :  
Red, bare wire : Power supply Black, bare wire : 4 to 20 mA output.
- \* Output Temp. ranges :  
0 to 300 °C ( 0.053 mA/°C ), 32 to 572 °F ( 0.028 mA/°F ).
- \* Mounting : Tripod Fix Nut.
- \* Size : 160 x 92 x 45 mm.





**THERMOMETER CALIBRATOR**

**Model : TC-424**

\* Function :

1. Thermocouple calibrator ( source ).
2. Thermocouple thermometer.
3. Pt100 calibrator ( source )
4. Pt100 thermometer ( measurement ).
5. 400 ohm resistance calibrator ( source )
6. 400 ohm resistance measurement.
7. DC mV calibrator ( source ).
8. DC mV measurement.

\* Type K thermocouple : -200.0 to 1370.0 °C

\* Type J thermocouple : -200.0 to 1200.0 °C

\* Type T thermocouple : -200.0 to 400.0 °C

\* Type R thermocouple : 0 to 1760 °C

\* Type E thermocouple : -200.0 to 1000.0 °C

\* Type S thermocouple : 0 to 1760 °C

\* Pt 100 : 0 to 850.0 °C

\* Resistance: 0 to 400.0 ohm.

\* DC mV : -10.00 mV to +110.00 mV.

\* Temp. unit : °C/°F.

\* Power: 1.5V (UM-3/AA)battery x 6 PCs or DC 9V adapter in.

\* Optional type K Temp. probes :

TP-01, TP-02A , TP-03, TP-04, TP-05.



**CURRENT, VOLTAGE, Type K CALIBRATOR**

**Model : CC-423**

\* CURRENT CALIBRATOR :

1. Current source: 0 to 24 mA
2. Current measurement : 0 to 24 mA.
3. Power ( 12V ) and current measurement of two wires loop.
4. Resolution : 0.01 mA.

\* VOLTAGE CALIBRATOR :

DC mV source: -199.9 mV to +199.9 mV.

\* Type K CALIBRATOR :

1. Type K thermocouple calibrator.
2. Type K Thermocouple thermometer.
3. -199 °C to 1230 °C , -325 °F to 2246 °F.
4. °C/°F, Resolution : 0.1 degree.

\* Power :

1.5V ( UM-3/AA ) battery x 6 PCs or DC 9V adapter in.

\* Housing case with tripod fix nut structure.

\* Optional type K Temp. probes :

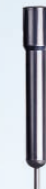
TP-01, TP-02A , TP-03, TP-04, TP-05.



Computer



Tablet, Smartphone



Meter 1

cable UPCB-03

Meter 2

cable UPCB-03

Meter 3

cable UPCB-03



METERS with RS232

**3 meters input  
RS232 to WiFi CONVERTER  
Model : RSW-923**

\* When LUTRON meters ( max. 3 meters ) with RS232 interface are connected to RSW-923, the meters can share data via WiFi technology. Therefore, personal devices, like desktop, laptop, smart phone, tablet... with WiFi function can be read the measuring data via WiFi. For example, museum has many show rooms in an open space. If each show room installs three Humidity/temp. indicator MHT-381SD with RSW-923, museum IT control center can monitor 3 sets humidity and temperature information in each room via WiFi network.

\* Allow 1 to max. 3 meters and max. 12 channels ( the total ch. no. of all meters ) input.

\* Basic setting of WiFi ( key in from the front buttons ) :

1. Net mode ( Client or AP, default to Client ), 2. SSID, 3. Pass word, 4. IP address, 5. Port, 6. Gateway.

\* Dot matrix LCD display.

\* Five input/output terminals :

1. DC 9V power input.
2. DC 9V power output ( power supply for the connecting RS232 meter ).
3. Meter 1 RS232 input ( photo isolate RS232 type ).
4. Meter 2 RS232 input ( photo isolate RS232 type ).
5. Meter 3 RS232 input ( photo isolate RS232 type ).

\* Accessories included :

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 3 PCs.
3. Power interface cable ( Connect the power cable to the RS232 meter ), PWCB-06 x 1 PC.

\* APP ( Android ) and APP ( IOS ) are available.

\* After smart phone or tablet install the APP, user can monitor the measurement value, log.

\* High/Low alarm or send the warning message out via SMS or email.



Meters  
with RS232

RSW-923

## Wi-Fi



### APP ( Android ) APP ( IOS )

#### \* Meter APP setup :

Under Project and Meter page, please select Tool Button ( in wheel shape ) to configure required data as below:

1. CH No : Channel number from 1 to 12.
2. Sampling time : 1 to 60 minutes. ( If Sampling time checkbox is not checked, Data Logger will be disabled. )
3. IP : Fill your WiFi converter IP, for example 192.168.0.101, 27.104.101.235...etc. ( If IP checkbox is not checked, signal input connection will be disabled. )
4. Port No : Fill your WiFi converter port number, for example 100, 101...etc.
5. Save file : Define the file path of Data Logger on mobile devices, for example : /storage/sd card/ABC. In this case, Data Logger will be saved under ABC folder as xml file, ex : Project\_Meter1\_20140608.xml. After the setup is done, please press " Save " button to save the data above as default value.

#### Features

- \* When LUTRON meter with RS232 interface and WiFi converter ( RSW-923, RSW-914, ) are connected together, the meter can share data via WiFi technology. Therefore personal devices, like smart phone or tablet with MeterAPP installed, can read the measuring data via WiFi and also make further data analysis.
- \* MeterAPP can load maximum 16 meters. ( 4 meters for 4 projects ).
- \* Each meter can display maximum 12 channels.
- \* Sampling time can be set from 1 to 60 minutes.
- \* Each channel can preset high/low threshold for alert.
- \* When alert is triggered, the mobile devices will sound or send SMS ( or Email ) warning message to 3 peoples in maximum.
- \* Default Meter name can be renamed.
- \* Measurement data display unit can be changed manually.
- \* Data Logger has 2 modes: " Auto Log " or " Manual Log ".
- \* Data Logger will be saved in mobile devices as xml file format which is compatible to Microsoft Office Excel. This benefits you to analyze and share your measurement results easier.
- \* When WiFi signal is connected successfully, the connection signal shows green with flashing. Otherwise it shows red color.

# Acquisition software Interface cable



\* Text display ( SW-U801-WIN )



\* Analog display ( SW-U801-WIN )

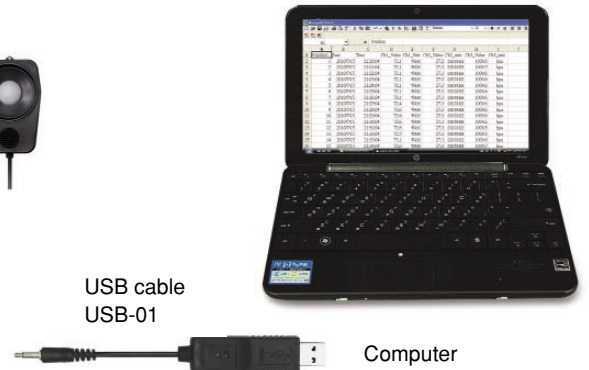


\* Data query, Print chart, Print data ( SW-U801-WIN )

## DATA ACQUISITION SOFTWARE

### Model : SW-U801-WIN

- \* The multi-display ( 1/2/4/6/8 displays ) powerful Windows program is available for XP, Vista, WIN 7 and WIN 8 can be cooperated with the LUTRON's RS232 instruments. It also provides the functions of data logging system, text display, angular display, chart display, data recorder high/low limit, data query, text report, chart report.. Data file can be download to Excel file, wide intelligent applications.
- \* Sampling time can be set from 1 to 3,600 seconds.
- \* If SW-U801-WIN cooperates with the RSC-801, then the software can monitor the 8 meters ( max. ) with the 8 channels' display.



USB cable  
USB-01

Computer

Position									
A	B	C	D	E	F	G	H	I	J
1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_unit	Ch3_Value	Ch3_unit
2	1	2010/7/15	21:20:04	72.1	%RH	27.2	DEGREE	1009.6	hpa
3	2	2010/7/15	21:21:04	72.1	%RH	27.3	DEGREE	1009.7	hpa
4	3	2010/7/15	21:22:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
5	4	2010/7/15	21:23:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
6	5	2010/7/15	21:24:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
7	6	2010/7/15	21:25:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
8	7	2010/7/15	21:26:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
9	8	2010/7/15	21:27:04	72.4	%RH	27.3	DEGREE	1009.6	hpa
10	9	2010/7/15	21:28:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
11	10	2010/7/15	21:29:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
12	11	2010/7/15	21:30:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
13	12	2010/7/15	21:31:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
14	13	2010/7/15	21:32:04	72.7	%RH	27.3	DEGREE	1009.5	hpa
15	14	2010/7/15	21:33:04	73.1	%RH	27.3	DEGREE	1009.6	hpa
16	15	2010/7/15	21:34:04	72.6	%RH	27.3	DEGREE	1009.7	hpa
17	16	2010/7/15	21:35:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
18	17	2010/7/15	21:36:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
19	18	2010/7/15	21:37:04	72.7	%RH	27.3	DEGREE	1009.6	hpa
20	19	2010/7/15	21:38:04	72.8	%RH	27.3	DEGREE	1009.6	hpa
21	20	2010/7/15	21:39:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
22	21	2010/7/15	21:40:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
23	22	2010/7/15	21:41:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
24	23	2010/7/15	21:42:04	73.1	%RH	27.4	DEGREE	1009.7	hpa
25	24	2010/7/15	21:43:04	73.1	%RH	27.3	DEGREE	1009.6	hpa

## EXCEL DATA ACQUISITION SOFTWARE

### Model : SW-E802

In order to log out the measurement data, some professional data logging softwares are required. However, it decreases the data management flexibility. SW-E802 can log out your measurement data on Microsoft Office Excel, which makes you much easier to share, analyze, and manage the measurement results.

- \* Microsoft Office Excel installed on PC is required.
- \* Compatible with Microsoft OS Windows XP, Vista, WIN 7 and WIN 8.
- \* With LUTRON RS232 converter RSC-801, SW-E802 can monitor multi-meters with multi-channels, 8 meters with 8 channels in maximum.
- \* Real time data acquisition system. Timeline data can be recorded as year/date/min/sec.
- \* Data sampling time: 1 to 3,600 seconds.
- \* Data can be utilized in Excel with general Excel functions, ex. drawing the data charts

## USB CABLE

### Model : USB-01

- \* The computer interface cable, one side is connected to the meter's RS232 output, the other side is plugged into the USB port of computer



# Software SERIES Interface Cable Water resistant bag



## 8 METERS DATA ACQUISITION SOFTWARE

### Model : SW-808

- \* The multi-instrument and multi-display ( 1/2/4/6/8 displays ) powerful Windows program is available for WIN 98, XP, Vista which enables you to cooperate it with the LUTRON's RS232 instruments ( max. 8 meters ). It provides the functions of data logging system ( max. 65,000 data ), high/low warning, data query. Data file can be converted to Excel file, wide intelligent applications.
- \* Sampling time can be set from 1 to 3,600 seconds.



## 8 to 1 RS232 CONVERTER

### Model : RSC-801

- \* It can be connected with the LUTRON's RS232 instruments ( max. 8 meters ), then convert all meters' RS232 signal to one RS232 output.
- \* It is the useful tool when applying the software SW-U801-WIN, SW-808, SW-818 ( internet/intranet software ) to expand the system and accept more meters' inputs.
- \* The interface cable between the meter and the RSC-801 is the GMCB-89.



## WATER RESISTANT BAG

### Model : WP-11

- \* Water resistant bag, suitable to pack all LUTRON water quality meters such as pH meters, conductivity meters, dissolved oxygen meters to protect the meters from water ( rain ) splashes.
- \* Material is made from clear PVC.
- \* Dust and moisture resistant.
- \* Size : 285 cm x 167 mm.

# INDEX 1 ( Model no./Page no. )

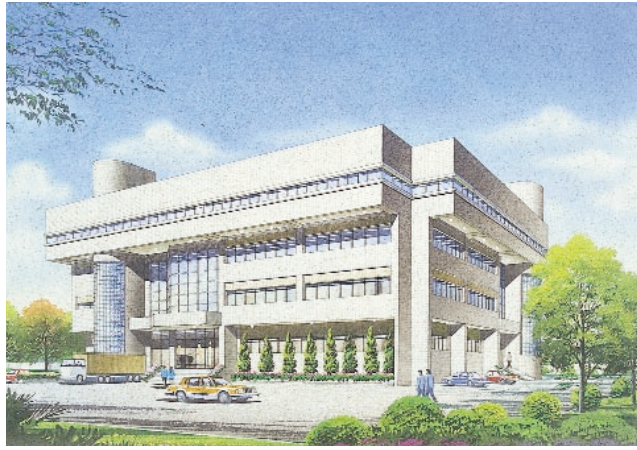
Model	Page
AA-104	33
ABH-4224	5,59,63
ABH-4225	6,58,63
AH-4223	6,58
AM-402	41
AM-4200	28
AM-4201	57
AM-4202	57
AM-4203	13,57
AM-4203HA	11,57
AM-4204	13,60
AM-4204HA	11,60
AM-4205A	13,61
AM-4206	13,57
AM-4206M	13,57
AM-4207SD	17
AM-4210	25
AM-4214SD	17
AM-4220	5,59
AM-4221	5,59
AM-4222	6,58
AM-4233SD	17
AP-9V110	86
AP-9V220	86
AP-9VA	86
AP-GTE	86
AP-GTU	86
APP ( Android )	94
APP ( IOS )	94
AT-20	39
AV-102	33
BB-22	39
BTM-4208SD	50
CA-03	41
CA-04	41
CA-05A	41
CA-05B	41
CA-06	41
CA-08	41
CA-201	40
CA-203	38,40
CA-501	40
CA-502	38,40
CA-52A	41
CB-933	44
CBOX-406	33
CC-421	12,44
CC-422	12,44
CC-423	92
CD-14	74
CD-4301	74
CD-4302	28,74
CD-4303	14,74
CD-4303HA	11,74
CD-4306	1,74
CD-4322	26,74
CDPB-03	22,31
CDPB-04	31
CL-2006	78
CM-6146	37

Model	Page
CM-6155C	37
CM-6155F	37
CM-6158	37
CM-9930	36
CM-9930R	36
CM-9940	36
CM-9941	36
CM-9942G	37,81
CP-1201	83
CP-3000	83
CT-2012	88,91
DA-103	33
DI-6300	42
DI-6300A	42
DI-6400	42
DL-6054	37
DL-9602SD	16
DL-9954	36,37
DM-9020	34
DM-9023	35
DM-9027T	34
DM-9080	34
DM-9090	34
DM-9680 KITS	34
DM-9960	34
DM-9961	34
DM-9982G	34,81
DM-9983G	34,81
DO-5509	28,75
DO-5510	14,75
DO-5510HA	11,75
DO-5519	26,75
DR-99ACA	87
DR-99ACV	87
DR-99DCA	87
DR-99DCV	87
DT-1236L	45
DT-2199	49
DT-2230	45
DT-2234B	46
DT-2234BL	45
DT-2235B	46
DT-2236	45
DT-2237A	38
DT-2238	45
DT-2239A	48
DT-2240D	87
DT-2244	46
DT-2245	46
DT-2249A	47
DT-2259	46
DT-2268	45
DT-2279	48
DT-2299	49
DT-2349	47
DV-101	33
DW-6063	39
DW-6090A	84
DW-6093	83
DW-6163	39

Model	Page
EM-9000	25
EM-9100	16
EM-910P	65
EMF-810	78
EMF-819	69
EMF-822A	29,68
EMF-823	68
EMF-824	41
EMF-827	68
EMF-828	68
EMF-839	69
EP-03H	69
EP-04L	69
ET-3000	43
FC-2500A	39
FC-2700	39
FC-422D	87
FG-20KG	79
FG-5000A	79
FG-5005	79
FG-5020	79
FG-5100	79
FS-1001	79
FT-967	52
FT-9950	36
GC-2028	82
GCH-2018	82
GCO-2008	82
GM-1500P	85
GM-3KG	85
GM-500	85
GM-5000	85
GM-600G	85
GM-600P	85
GM-610P	85
GS-400	65
GS-5800	65
GU-3001	80
HD-3008	3,62
HS-01	35,40
HS-02	35,40
HT-3006A	14,61
HT-3006HA	11,61
HT-3007SD	18
HT-3015	14,61
HT-3015HA	11,61
HT-305	27,61
HT-306	27,61
HT-315	27,61
HV-40	41
IP-09	38
LBOX-405	33
LCR-9063	35
LCR-9083	35
LCR-9183	35
LCR-9184	35
LF-423	43
LM-8000A	4
LM-8010	4
LM-8100	81

Model	Page
LM-8102	81
LM-81AM	4,57
LM-81AT	4,57
LM-81HT	4,62
LM-81LX	4,55
LM-9000	4
LN-A37	35
LN-S05	35
LS-04	38
LX-02	41
LX-100	29,54
LX-100F	29,54
LX-101	54
LX-101AS	29,54
LX-102	54
LX-105	13,54
LX-107	54
LX-107HA	12
LX-108	54
LX-110	25
LX-1102	3,54
LX-1108	3,54
LX-1118	23,55
LX-1128SD	18
LX-113S	29,54
MCH-383SD	82
MG-3002	80
MO-2001	32
MO-2002	32
MO-2013	32
MO-2014	32
MS-7000	13,67
MS-7000HA	11
MS-7001	11,67
MS-7002	13,67
MS-7003	67
MS-7011	78
MS-71P	78
MY-81AP	23,58
MY-91HT	23,62
NB-24	39
NI-214	76
NN-23	39
OHXD-04	28
ORP-14	28,76
ORP-15	76
ORP-203	28,76
ORP-213	8,76
OXEL-03	8,75
OXHD-04	75
OXPB-11	22,31
PB-21	39
PC-6009	37
PC-6010	37
PCD-431	9,74
PCD-432	9
PCO-350	10,82
PDO-519	9,75
PDO-520	9,75
PDT-2250	88





LUTRON main factory

## MAIN ITEMS & INDEX

### 1) MEASURING INSTRUMENTS

* 3 phase rotation tester, motor tester.....	43	* Microwave leakage detector.....	78
* ACA leakage testers.....	36	* Milliohm meters.....	32, 43
* APP ( Android, IOS ).....	94	* Moisture ( soil ) meters.....	10, 67
* Adapters for DMM, Clamp.....	41	* Moistures meters.....	10, 11, 13, 67
* Ampere meter.....	33, 40	* Multimeters.....	34, 81
* Anemometers ( cup type ).....	5, 59, 63	* Negative ion water tester.....	76
* Anemometers ( hot wire type ).....	11, 13, 17, 21, 60	* O2 meter ( Air oxygen meter ).....	10, 82
* Anemometers ( vane type ).....	2, 4, 6, 11, 13, 16, 17, 20, 23, 25, 28, 30, 41, 57, 58, 61, 63, 65	* ORP electrode.....	28, 76
* Balance.....	85	* ORP meters.....	1, 8, 11, 14, 22, 26, 28, 31, 71, 72, 76
* Barometers.....	5, 6, 7, 58, 59, 62, 63	* pH electrodes.....	31, 73
* Bench testers ( V, A, pH ).....	33	* pH meters.....	1, 8, 11, 14, 22, 26, 28, 31, 33, 71, 72, 89
* CO meter ( Carbon monoxide meter ).....	10, 82	* pH soil meters.....	72
* CO2 meter ( Carbon dioxide meter ).....	82	* Panel meters ( V, A, RPM, Hz ).....	87
* Cable checker / Cable identifier.....	44	* Panel meters ( controller, rpm, %RH, pH, RS232 ).....	87, 88, 91
* Calibrators.....	12, 44, 92	* Pen meters, pen testers.....	5, 6, 7, 8, 9, 10
* Capacitance decade box.....	33	* Power adapters ( ACV to DC 9V adapters ).....	86
* Capacitance meters.....	35	* Power analyzers.....	39, 83, 84
* Car testers, automotive testers.....	38	* Pressure meter.....	14
* Carrying cases.....	41	* Pressure sensors, transducer.....	14, 84
* Chlorine meter.....	78	* Proximity sensors, photo sensor.....	40, 87, 91
* Clamp meters ( ACA, DCA ).....	36, 81	* RCCB checkers, Motor tester.....	43
* Clamp meters ( power clamp ).....	37	* RS232 converter.....	96
* Clamp probe ( flexible probe ).....	83	* Resistance decade boxes.....	33
* Color analyzers.....	70	* Salt meter.....	1, 8, 31, 77
* Conductivity ( TDS ) meters.....	1, 9, 10, 11, 14, 22, 26, 28, 31, 74, 77	* Scales, Balances.....	85
* Controllers ( 4-20 mA, RPM, %RH, pH, RS232 ).....	88	* Software.....	51, 95, 96
* Current probes.....	83	* Sound calibrators.....	64
* DMM, Multimeters.....	34, 81	* Sound level meters.....	3, 19, 64, 65, 81
* Data logger meters ( real time data logger meters ).....	16	* Standard solution ( pH, conductivity ).....	73, 74
* Data logger.....	14, 20, 21, 22, 23, 24, 25, 26, 27, 51, 55, 58, 60, 61, 72	* Stroboscopes.....	47, 48, 49
* Dissolved oxygen meters.....	1, 9, 11, 14, 22, 26, 28, 31, 75, 89	* Tachometer ( gasoline car ).....	38
* Earth tester.....	43	* Tachometer ( hobby airplane ).....	46
* Education products.....	33	* Tachometers ( photo, contact, controller ).....	45, 46, 66
* Electromagnetic field tester ( radio frequency ).....	69	* Temperature probes.....	15, 50
* Electromagnetic field testers ( low frequency ).....	29, 68	* Tester leads, alligators, clips.....	35, 86
* Environment meters.....	16, 25, 30, 65	* Thermometers ( Infrared ).....	2, 30, 52, 53
* Force gauges.....	79	* Thermometers ( Infrared, forehead ).....	52
* Fork current ( AC/DC ) tester.....	36	* Thermometers ( Pt 100 ohm ).....	2, 12, 15, 18, 24, 50, 51
* Frequency counters, monitor.....	39	* Thermometers ( thermocouple ).....	2, 4, 7, 12, 13, 14, 16, 17, 18, 23, 24, 25, 29, 44, 50, 52, 61, 65, 81
* High voltage probe.....	41	* Torque meter.....	13, 80
* Holsters.....	35, 40	* Torque wrench.....	80
* Humidity / Temp./ Dew point meters.....	3, 4, 5, 6, 7, 11, 13, 14, 16, 18, 23, 25, 27, 61, 62, 63, 65, 81, 82	* Transmitters, industrial, full line.....	89, 90, 91
* Humidity content meter.....	78	* Turbidity meter.....	78
* Inductance decade box.....	33	* USB power to DC 9V converter.....	86
* Insulation testers.....	42	* UV light meters.....	3, 10, 13, 29, 56
* Intelligent meters.....	30	* Ultrasonic leakage detector.....	65
* Interface cable ( RS232, USB ).....	86, 95	* Ultrasonic transmitter.....	65
* Kelvin clips.....	43	* Vacuum meter.....	15, 38
* LCR meters.....	35	* Vibration meters.....	3, 10, 12, 15, 19, 46, 66
* Line frequency monitor.....	43	* Voltage meters.....	87
* Lux meters, Light meters.....	3, 4, 6, 12, 13, 16, 18, 20, 23, 25, 29, 30, 41, 54, 55, 65, 81, 89	* Voltmeter modules.....	87
* Magnetic meter ( AC/DC ).....	80	* Water resistance bag.....	96
* Magnetic meter ( Precision Gauss meter ).....	80	* Water tester ( Pure water tester ).....	1, 10, 22, 28, 77
* Manometers.....	12, 14	* Watt meters.....	39
		* WiFi converter ( RS232 to WiFi ).....	93
		<b>2) AUTOMOBILE, CAR TESTERS.....</b>	<b>38</b>
		<b>3) GREEN POWER PRODUCTS.....</b>	<b>37, 81</b>
		<b>4) SCALES &amp; BALANCES.....</b>	<b>85</b>
		<b>5) INDUSTRIAL TRANSMITTERS.....</b>	<b>89, 90, 91</b>
		<b>6) SD CARD DATA RECORDER.....</b>	<b>17, 18, 19, 24, 50</b>